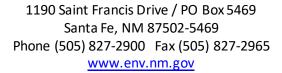


NEW MEXICO

ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau





Draft: June 8, 2021

GROUND WATER QUALITY BUREAU DISCHARGE PERMIT Issued under 20.6.2 NMAC

Facility Name:	Albuquerque Bernalillo County Water Utility Authority
	(ABCWUA)/Southside Water Reclamation Plant Reuse

System (SWRP)

Discharge Permit Number: DP-1308

Facility Location: 4201 Second Street, SW

Albuquerque, NM

County: Bernalillo

Permittee: ABCWUA

Mailing Address: Post Office Box 568

Albuquerque, NM 87103

Facility Contact: Danielle Shuryn, Compliance Division Manager

Telephone Number/Email: 505-289-3382/dshuryn@abcwua.org

Permitting Action: Renewal and Modification

Permit Issuance Date: DATE
Permit Expiration Date: DATE

NMED Permit Contact: Sandra Gabaldón

Telephone Number/Email: 505-660-8164/sandra.gabaldon@state.nm.us

MICHELLE HUNTER	Date	

Chief, Ground Water Quality Bureau New Mexico Environment Department

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Discharge Permit Summary

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit Renewal and Modification (Discharge Permit or DP-1308) to the Albuquerque Bernalillo County Water Utility Authority (ABCWUA) (Permittee) /Southside Water Reclamation Plant (SWRP) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978 §§74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Ground and Surface Water Protection Regulations, 20.6.2 NMAC.

NMED's purpose in issuing this Discharge Permit, and in imposing the requirements and conditions specified herein, is to control the discharge of water contaminants from the Southside Water Reclamation Plant Reuse System (Facility) in order to protect groundwater and those segments of surface water gaining from groundwater inflow for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health. It is NMED's determination in issuing this Discharge Permit that the Permittee has met the requirements of Subsection C of 20.6.2.3109 NMAC. The Permittee is responsible for complying with the terms and conditions of this Discharge Permit pursuant to Section 20.6.2.3104 NMAC; failure to do so may result in enforcement action by NMED (20.6.2.1220 NMAC).

Described below are the activities that produce the discharge, the location of the discharge, and the quantity, quality and flow characteristics.

A water reclamation plant provides tertiary treatment using mechanical filtration (cloth media filters) and disinfection (chloramination) receives and treats up to 7.5 million gallons per day (MGD) of secondary treated domestic wastewater. Treated wastewater (Class 1A reclaimed domestic wastewater stores in storage tanks and then enters a distribution system that discharges to various reuse areas on the southside of Albuquerque through sprinkler or drip landscape irrigation.

The Discharge Permit modification consists of the addition of two new reuse areas: Valle del Oro National Wildlife Refuge (T9N, R3E, Sections 07, 18, 19, and 30) and Mesa del Sol (T9N, R3E, Sections 21, 22, 27, and 28).

The discharge may contain water contaminants or toxic pollutants elevated above the standards of Section 20.6.2.3103 NMAC and is not subject to the exemption at Subsection 20.6.2.3105.A NMAC.

The Facility is located at 4201 Second Street, SW, Albuquerque, in Section 7, Township 9N, Range 3E, in Bernalillo County. A discharge at the Facility is most likely to affect groundwater at a depth of approximately 30-516 feet and having a pre-discharge total dissolved solids (TDS) concentration of approximately 305 milligrams per liter.

NMED issued the original Discharge Permit to the Permittee on April 30, 2001 and subsequently renewed and modified the Permit on May 20, 2010; and renewed the Permit on October 30, 2015. The application (i.e., discharge plan) associated with this Discharge Permit consists of the materials submitted by the Permittee June 6, 2020 and materials contained in the administrative record prior to issuance of this Discharge Permit.

The Permittee shall manage the discharge in accordance with all conditions and requirements of this Discharge Permit.

NMED reserves the right to require a Discharge Permit modification in the event NMED determines that the Permittee is or may be violating, or is likely to violate in the future, the requirements of 20.6.2 NMAC or the standards of Section 20.6.2.3103 NMAC. NMED reserves this right pursuant to Section 20.6.2.3109 NMAC. An NMED requirement to modify the Discharge Permit may result from a determination by the department that structural controls and/or management practices approved under this Discharge Permit are insufficiently protective of groundwater quality and human health. NMED reserves the right to require the Permittee implement abatement of water pollution and remediate groundwater quality.

NMED issuance of this Discharge Permit does not relieve the Permittee of the responsibility to comply with the WQA, WQCC Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

This Discharge Permit may use the following acronyms and abbreviations.

Abbreviation	Explanation	Abbreviation	Explanation
BOD ₅	biochemical oxygen demand	NMED	New Mexico Environment
	(5-day)		Department
CAP	Corrective Action Plan	NMSA	New Mexico Statutes
			Annotated
CFR	Code of Federal Regulations	NO₃-N	nitrate-nitrogen
CFU	colony forming unit	NTU	nephelometric turbidity units
Cl	chloride	QA/QC	Quality Assurance/Quality
			Control
EPA	United States Environmental	TDS	total dissolved solids
	Protection Agency		
Gpd	gallons per day	TKN	total Kjeldahl nitrogen
LAA	land application area	total nitrogen	= TKN + NO ₃ -N
LADS	Land Application Data Sheet(s)	TRC	total residual chlorine
mg/L	milligrams per liter	TSS	total suspended solids
mL	milliliters	WQA	New Mexico Water Quality
			Act

Abbreviation	Explanation	Abbreviation	Explanation
MPN	most probable number	WQCC	Water Quality Control
			Commission
NMAC	New Mexico Administrative	WWTF	Wastewater Treatment
	Code		Facility

II. FINDINGS

In issuing this Discharge Permit, NMED finds the following.

- 1. The Permittee is discharging effluent or leachate from the Facility so that such effluent or leachate may move into groundwater of the State of New Mexico that has an existing concentration of 10,000 mg/L or less of TDS, within the meaning of Subsection A of 20.6.2.3101 NMAC, without exceeding standards of 20.6.2.3103 NMAC for any water contaminant.
- 2. The Permittee is discharging effluent or leachate from the Facility directly or indirectly into groundwater pursuant to this Discharge Permit and Sections 20.6.2.3000 through 20.6.2.3114 NMAC.
- 3. The discharge from the Facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.

III. AUTHORIZATION TO DISCHARGE

The Permittee is responsible for ensuring that discharges authorized by this Discharge Permit are consistent with the terms and conditions herein pursuant to 20.6.2.3104 NMAC.

This Discharge Permit authorizes the Permittee to receive and treat up to 7.5 MGD of secondary treated domestic wastewater at the Southside Water Reclamation Plant Reuse System (Facility) to produce Class 1A reclaimed domestic wastewater. This Discharge Permit also authorizes the Permittee discharge treated wastewater (reclaimed domestic wastewater) to storage tanks prior to discharging it to various reuse areas on the southside of Albuquerque through sprinkler or drip landscape irrigation.

[20.6.2.3104 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection D of 20.6.2.3109 NMAC]

IV. CONDITIONS

NMED issues this Discharge Permit for the discharge of water contaminants subject to the following conditions.

A. OPERATIONAL PLAN

#	Terms and Conditions
1.	The Permittee shall implement the following operational plan to ensure compliance with Title 20, Chapter 6, Parts 2 and 4 NMAC.
	[Subsection C of 20.6.2.3109 NMAC]
2.	The Permittee shall operate in a manner that does not violate standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC.
	[20.6.2.3101 NMAC, 20.6.2.3103 NMAC, Subsection C of 20.6.2.3109 NMAC]

Operational Actions with Implementation Deadlines

#	Terms and Conditions
3.	Within 180 days following the issuance date of this Discharge Permit (by DATE)] the Permittee shall submit an up-to-date diagram of the layout of the entire Facility to NMED. The diagram shall include the following elements: • a north arrow; • the issuance date of the diagram; • all components of the tertiary treatment system; • all reuse distribution pipelines; • all groundwater monitoring wells; • all backflow prevention methods/devices; • all flow measurement devices; and • all reuse water sampling locations.
	The Permittee shall ensure that any element that cannot be directly shown due to its location inside of existing structures, or because it is buried without surface identification, shall be on the diagram in a schematic format and identified as such. [Subsection C of 20.6.2.3106 NMAC, Subsection A of 20.6.2.3107 NMAC]
4.	Prior to discharging reclaimed domestic wastewater to the new reuse areas (Valle del Oro National Wildlife Refuge and Mesa del Sol), the Permittee shall install the infrastructure necessary to transfer, distribute and apply reclaimed domestic wastewater. The Permittee shall ensure documentation confirming installation of the
	distribution system consists of a narrative statement including the system type and location, and the method of backflow prevention employed (if applicable). The

#	Terms and Conditions
	Permittee shall provide this documentation to NMED prior to discharging to the reuse areas.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
5.	Prior to discharging from the Facility, the Permittee shall post signs in English and Spanish at the new reuse areas (Valle del Oro National Wildlife Refuge and Mesa del Sol). The Permittee shall post signs at the entrance to reuse areas and at other locations where public exposure to reclaimed domestic wastewater may occur. The signs shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR. The Permittee may submit alternate wording and/or graphics to NMED for approval. Documentation of sign installation shall consist of a narrative statement describing the number and location of the signs and date-stamped photographs. The Permittee shall submit the documentation to NMED in the next required periodic monitoring report.
	[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]

Operating Conditions

#	Terms and Conditions

6. The Permittee shall ensure that Class 1A reclaimed domestic wastewater discharged from the Clear Well Reuse Automated Sampler (clear well) does not exceed the following discharge limits.

<u>Test</u>	30-day Average	Maximum
Total Nitrogen	10 mg/L	15 mg/L
E. coli bacteria	3 MPN/100 mL	15 MPN/100 mL
BOD ₅	10 mg/L	15 mg/L
Turbidity:	3 NTU	5 NTU
TRC	Monitor Only	Monitor Only

[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]

- 7. The Permittee shall ensure adherence to the following general requirements for aboveground use of reclaimed domestic wastewater.
 - a) The Permittee shall install and maintain signs in English and Spanish at all reuse areas such that they are visible and legible for the term of this Discharge Permit. The Permittee shall post signs at the entrance to reuse areas and at other locations where public exposure to reclaimed domestic wastewater may occur. The signs shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS NO TOMAR. The Permittee may submit alternate wording and/or graphics to NMED for approval.
 - b) Reclaimed domestic wastewater systems shall have no direct or indirect cross connections with public water systems or irrigation wells pursuant to the latest revision of the New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NMAC).
 - c) Above-ground use of reclaimed domestic wastewater shall not result in excessive ponding of wastewater and shall not exceed the water consumptive needs of the crop. The Permittee shall not discharge reclaimed domestic wastewater at times when the reuse area is saturated or frozen.
 - d) The Permittee shall confine discharge of reclaimed domestic wastewater to the reuse area.
 - e) The Permittee shall not discharge reclaimed domestic wastewater to crops used for human consumption.
 - f) Water supply wells within 200 feet of a reuse area shall have adequate wellhead construction pursuant to 19.27.4 NMAC.

- g) Existing and accessible portions of the reclaimed domestic wastewater distribution system (with the exception of application equipment such as sprinklers or pivots) shall be colored purple or clearly labeled as being part of a reclaimed domestic wastewater distribution system. Piping, valves, outlets, and other plumbing fixtures shall be purple pursuant to the latest revision of the New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NMAC) to differentiate piping or fixtures used to convey reclaimed wastewater from those intended for potable or other uses.
- h) Valves, outlets, and sprinkler heads used in reclaimed wastewater systems shall be accessible only to authorized personnel.

The Permittee shall demonstrate adherence to these requirements by submitting documentation consisting of narrative statements and date-stamped photographs as appropriate. The Permittee shall submit the documentation to NMED once during the term of this Discharge Permit in the next required periodic monitoring report after the issuance of the Discharge Permit.

[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1–78, § 74-6–5.D]

8. The Permittee shall institute a backflow prevention method to protect wells and public water supply systems from contamination by reclaimed domestic wastewater prior to discharging to the reuse area. Backflow prevention shall be achieved by a total disconnect (physical air gap separation between the discharge pipe and the liquid surface at least twice the diameter of the discharge pipe), or by a reduced pressure principal backflow prevention assembly (RP) installed on the line between the fresh water supply wells or public water supply and the reclaimed domestic wastewater delivery system. The Permittee shall maintain backflow prevention at all times.

The Permittee shall have RP devices inspected and tested by a certified backflow prevention assembly tester at the time of installation, repair or relocation and at least on an annual basis thereafter. The backflow prevention assembly tester shall have successfully completed a 40-hour backflow prevention course based on the University of Southern California's Backflow Prevention Standards and Test Procedures, and obtained certification demonstrating completion. The Permittee shall have all malfunctioning RP devices repaired or replaced within 30 days of discovery. The Permittee shall cease using supply lines associated with the RP device until repair or replacement is complete.

The Permittee shall maintain copies of the inspection and maintenance records and test results for each RP device associated with the backflow prevention program at a location available for inspection by NMED.

#	Terms and Conditions
	[Subsection C of 20.6.2.3109 NMAC]
9.	The Permittee shall maintain fences around the Facility to restrict access by the general public and animals. The fences shall consist of a minimum of six-foot chain link or field fencing and locking gates. The Permittee shall maintain the fences to serve the stated purpose throughout the term of this Discharge Permit. [Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]
10.	The Permittee shall maintain signs indicating that the wastewater at the Facility is not potable. The Permittee shall post signs at SWRP entrance and other areas where there is potential for public contact with the reclaimed domestic wastewater. The Permittee shall print signs in English and Spanish and shall ensure the signs remain visible and legible for the term of this Discharge Permit. [Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]
11.	The Permittee shall develop a program to educate users and a user agreement template that outlines the conditions of usage of reuse water that includes, at a minimum: Cross connection control; Purple pipe requirements; Proper application of reuse water for various uses, taking into account the appropriate consumptive water use rate; Confining the discharge of reuse water to the area designated and approved for receiving the reuse water; Avoidance of excessive standing or polling of reuse water; Avoidance of irrigation at times when the receiving area is saturated or frozen; Management of irrigation to protect ground water quality and proper construction of water supply wells within 200 feet of a wetted irrigation area; and Signage required to be posted and maintained where reuse water is used. The Permittee shall submit a copy of the current user agreement template shall be submitted to NMED within 90 days following the effective date of this Discharge Permit (DATE). [20.6.2.3109 NMAC]
12.	The Permittee shall have and maintain the authority, through ordinance, to discontinue reuse water service to any recipient who uses reuse water in a manner inconsistent with the user agreement.

#	Terms and Conditions	
	[20.6.2.3109 NMAC]	
13.	The Permittee shall not supply reuse water to individual residential users.	
	[20.6.2.3109 NMAC]	
14.	The Permittee shall utilize operators, certified by the State of New Mexico at the appropriate level pursuant to 20.7.4 NMAC, to operate the wastewater collection, treatment and disposal systems. A certified operator or a direct supervisee of a certified operator shall perform the operations and maintenance of all or any part of the wastewater system.	
	The Permittee shall notify the NMED within 24 hours if at any time the Permittee no longer has a certified operator maintaining the system. [Subsection C of 20.6.2.3109 NMAC, 20.7.4 NMAC]	

B. MONITORING AND REPORTING

#	Terms and Conditions
15.	The Permittee shall conduct the monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
16.	METHODOLOGY – Unless otherwise specified by this Discharge Permit, or approved in writing by NMED, the Permittee shall use sampling and analytical techniques that conform with the references listed in Subsection B of 20.6.2.3107 NMAC. [Subsection B of 20.6.2.3107 NMAC]
17.	Annual monitoring - The Permittee shall perform monitoring and other Permit required actions during the period of January 1st through December 31st. The Permittee shall submit the annual monitoring report by February 1st. [Subsection A of 20.6.2.3107 NMAC]

Monitoring Actions with Implementation Deadlines

#	Terms and Conditions
	The Permittee shall sample reclaimed domestic wastewater for the presence of perfluorinated chemicals (PFCs).
	Within 180 days of the issuance date of this Discharge Permit (by DATE), the Permittee shall collect a single grab sample at the clear well. The Permittee shall analyze the sample for the following PFCs:
	 perfluorohexane sulfonic acid (PFHxS) (CAS 355-46-4) perfluorooctane sulfonate (PFOS) (CAS 1763-23-1) perfluorooctanoic acid (PFOA) (CAS 335-67-1)
	The Permittee shall properly collect, prepare, preserve, transport, and analyze the sample in accordance with ASTM D7979-17, or an equivalent method that uses liquid chromatography and tandem mass spectrometry (LC/MS/MS). The reporting limit shall be low enough to identify whether the combined concentration of the perfluorinated chemicals is less than the Tap Water Screening Level identified in the most recent revision of the <i>NMED Risk Assessment Guidance for Site Assessments and Investigations</i> , Table A-1 available on the NMED Hazardous Waste Bureau's website under Guidance Documents. The Permittee shall take appropriate measures to avoid cross contamination while collecting and transporting the sample. The selected laboratory should be able to provide guidance that ensures sample integrity. The Permittee shall submit a copy of the laboratory report, including analytical results, the QA/QC summary, and the Chain of Custody to NMED in the annual report.
	[Subsection H of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]

Facility Monitoring Conditions

#	Terms and Conditions
18.	The Permittee shall measure the totalized volume of reclaimed wastewater discharged from the Facility each month using a totalizing flow meter. The Permittee shall submit the totalized discharge volumes for each month and average daily discharge to NMED in the annual monitoring report.
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
19.	The Permittee shall measure the monthly volume of reclaimed wastewater discharged at each location within the reuse areas using totalizing flow meters. The Permittee shall submit the monthly discharge volumes for each location within the reuse areas to NMED in the annual monitoring report.

#	Terms and Conditions
	[Subsection A of 2.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
20.	All flow meters shall be capable of having their accuracy verified under working (i.e., real-time in-the-field) conditions. The Permittee shall develop a field verification method for each flow meter and shall utilize that method to check the accuracy of each respective meter. The Permittee shall perform field calibrations upon repair or replacement of a flow measurement device and, at a minimum, on an annual basis.
	The Permittee shall calibrate each flow meter to its manufacturer's recommended specification which shall be no less accurate than plus or minus 10 percent of actual flow, as measured under field conditions. An individual knowledgeable in flow measurement shall perform field calibration and the installation/operation of the device in use. The Permittee shall prepare a flow meter calibration report for each flow measurement device calibration event. The flow meter calibration report shall include the following information. a) The location and meter identification. b) The method of flow meter field calibration employed. c) The measured accuracy of each flow meter prior to adjustment indicating the positive or negative offset as a percentage of actual flow as determined by an in-field calibration check. d) The measured accuracy of each flow meter following adjustment, if necessary, indicating the positive or negative offset as a percentage of actual flow of the meter. e) Any flow meter repairs made during the previous year or during field calibration. f) The name of the individual performing the calibration and the date of the calibration. The Permittee shall maintain records of flow meter calibration(s) at a location accessible for review by NMED during Facility inspections.
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
21.	The Permittee shall visually inspect flow meters on a monthly basis for evidence of malfunction. The Permittee shall maintain a log of the inspections that includes a date of the inspection, findings and repairs, and the name of the inspector. The Permittee shall make the log available to NMED upon request.
	If a visual inspection indicates a flow meter is not functioning as required by this Discharge Permit, the Permittee shall repair or replace the meter within 30 days of discovery. For repaired meters, the Permittee shall submit a report to NMED with the next monitoring report following the repair that includes a description of the malfunction; a statement verifying the repair; and a flow meter field calibration report completed in accordance

#	Terms and Conditions
	with the requirements of this Discharge Permit. For <i>replacement</i> meters, the Permittee shall submit a report to NMED with the next monitoring report following the replacement that includes a design schematic for the device and a flow meter field calibration report completed in accordance with the requirements of this Discharge Permit.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
22.	 During any week that the discharge of reclaimed domestic wastewater occurs, the Permittee shall perform the following analyses on the wastewater samples collected from the clear well using the following sampling method and frequency: E. coli bacteria; grab sample at peak daily flow three times per week; BODs; six-hour composite sample three times per week; Turbidity; continuously monitor reclaimed domestic wastewater for turbidity after the final treatment process and while discharging; record the average and maximum turbidity values for each calendar month; TRC concentrations; record whenever collecting bacteria samples; The Permittee shall ensure the samples are properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit the laboratory analytical data results, including the QA/QC summary and Chain of Custody, monthly average and maximum turbidity values, and a copy of the log of TRC concentrations to NMED in the subsequent annual monitoring report. [Subsection A of 20.6.2.3107 NMAC, Subsections B, C and H of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]
23.	The Permittee shall collect samples of reclaimed domestic wastewater from the clear well on a monthly basis and analyze the samples for: TKN; 24-hour flow weighted composite; and NO3-N; 24-hour flow weighted composite The Permittee shall ensure the samples are properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit the laboratory analytical data results, including the QA/QC summary and Chain of Custody, to NMED in the subsequent annual monitoring report. [Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]

Terms and Conditions

- 24. On an annual basis, the Permittee shall collect a 24-hour flow weighted composite sample (except as noted for pH) of reclaimed domestic wastewater from the clear well and analyze the sample for the following inorganic contaminants (dissolved fraction, except as noted):
 - aluminum (CAS 7429-90-5)
 - antimony (CAS 7440-36-0)
 - arsenic (CAS 7440-38-2)
 - barium CAS 7440-39-3)
 - beryllium (CAS 7440-41-7)
 - boron (CAS 7440-42-8)
 - cadmium (CAS 7440-43-9)
 - chromium (CAS 7440-47-3)
 - cobalt (CAS 7440-48-4)
 - copper (CAS 7440-50-8)
 - cyanide CAS 57-12-5)
 - fluoride (CAS 16984-48-8)
 - iron (CAS 7439-89-6)
 - lead (CAS 7439-92-1)
 - manganese (CAS 7439-96-5)

- molybdenum (CAS 7439-98-7)
- total mercury (nonfiltered) (CAS 7439-97-6)
- pH (instantaneous)
- nickel (CAS 7440-02-0)
- selenium (CAS 7782-49-2)
- silver (CAS 7440-224)
- sulfate (CAS 14808-79-8)
- thallium (CAS 7440-28-0)
- uranium (CAS 7440-61-1)
- zinc (CAS 7440-66-6)

The Permittee shall properly collect, prepare, preserve, transport and analyzed the samples in accordance with the methods authorized in this Discharge Permit. The Permittee shall analyze the sample using methods with reporting limits that are less than the corresponding numerical groundwater standards identified in 20.6.2.3103 NMAC.

The Permittee shall submit a summary of measured concentrations compared with the corresponding groundwater standards, a copy of the laboratory report including the laboratory analytical data results, the QA/QC summary and the Chain of Custody, to NMED in the annual monitoring report due by February 1st of each year.

[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]

- 25. On an annual basis, the Permittee shall collect a grab sample of reclaimed domestic wastewater from the clear well and analyze the non-filtered sample for the following organic contaminants:
 - atrazine (CAS 1912-24-9)
 - benzene (CAS 71-43-2)
- ethylene dibromide (EDB, CAS
 - 106-93-4)

Terms and Conditions • benzo-a-pyrene (CAS 50-32-• methylene chloride (CAS 75-09- carbon tetrachloride (CAS) PAHs: total naphthalene (CAS 91-56-23-5) 20-3) plus monomethylnaphthalenes chloroform (CAS 67-66-3) • 1,2-dichlorobenzene (CAS phenols 95-50-1) polychlorinated biphenyls (PCBs, • 1,4-dichlorobenzene (CAS CAS 1336-36-3) 106-46-7) pentachlorophenol (CAS 87-86-5) • 1,1-dichloroethane (CAS 75- toluene (CAS 108-88-3) 34-3) styrene (CAS 100-42-5) • 1,2-dichloroethane (EDC, • 1,1,2,2-tetrachloroethane (CAS CAS 107-06-2) 79-34-5) • 1,1-dichloroethene (1,1-DCE, • tetrachloroethene (PCE, CAS 127-CAS 75-35-4) • cis-1,2-dichloroethene (CAS • 1,2,4-trichlorobenzene (CAS 120-156-59-2) 82-1) • trans-1,2-dichloroethene 1,1,1-trichloroethane (1,1,1-TCA, (CAS 156-60-5) CAS 71-55-6) • 1,2-dichloropropane (PDC, • 1,1,2-trichloroethane (CAS 79-00-CAS 78-87-5) 5) 1,4-dioxane (CAS 123-91-1) trichloroethene (TCE, CAS 79-01-(using EPA Method 8270D-SIM) vinyl chloride (CAS 75-01-4) • ethylbenzene (CAS 100-41-4) total xylenes (CAS 1330-20-7) The Permittee shall properly collect, prepare, preserve, transport and analyze the samples in accordance with the methods authorized in this Discharge Permit. The Permittee shall analyze samples using methods with reporting limits that are less than the corresponding numerical groundwater standards identified in 20.6.2.3103 NMAC. The reporting limit for 1,4-dioxane shall be less than the Tap Water Screening Level for 1,4-dioxane identified in the most recent revision of the NMED Risk Assessment Guidance for Site Assessments and Investigations, Table A-1 (available on the NMED Hazardous Waste Bureau's website under Guidance Documents).

The Permittee shall submit a summary of measured concentrations compared with the corresponding groundwater standards, and a copy of the laboratory report including the

If the results of two consecutive sampling events indicate no detection of 1,4-dioxane above the reporting limit, the Permittee may request to reduce the sampling frequency.

#	Terms and Conditions
	laboratory analytical data results, the QA/QC summary and the Chain of Custody to NMED in the annual monitoring report due by February 1 st of each year.
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
26.	The Permittee shall maintain a list of all sites receiving reuse water, including a map indicating the location and a list detailing all uses of reuse water at each location. The Permittee shall submit an updated list and map to NMED in the annual monitoring report due February 1st of each year. [20.6.2.3107 NMAC]

C. CONTINGENCY PLAN

#	Terms and Conditions
27.	In the event that groundwater exceeds a groundwater protection standard identified in Section 20.6.2.3103 NMAC as a result of this discharge during the term of this Discharge Permit, upon closure of the Facility or during the implementation of post-closure requirements, the Permittee shall submit to NMED a Corrective Action Plan (CAP) that proposes, at a minimum, contaminant source control measures and an implementation schedule. The Permittee shall implement the CAP as approved by NMED. The NMED may require the Permittee to abate water pollution consistent with the requirements and provisions of Section 20.6.2.4101, Section 20.6.2.4103, Subsections C and E of 20.6.2.4106, Section 20.6.2.4107, Section 20.6.2.4108 and Section 20.6.2.4112 NMAC.
	[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]
28.	In the event that analytical results of a reclaimed domestic wastewater sample indicate an exceedance of the total nitrogen discharge limit set in this Discharge Permit, the Permittee shall collect and submit for analysis a second sample within 48 hours of the receipt of the initial sampling results. In the event the second sample results indicate an exceedance of the discharge limit, the Permittee shall implement the following contingencies. a) Within 7 days of the second sample analysis date indicating exceedance of the discharge limit, the Permittee shall: i) notify NMED that the Permittee is implementing the Contingency Plan; and ii) submit a copy of the first and second analytical results indicating an exceedance to NMED.

Terms and Conditions

- b) The Permittee shall increase the frequency of total nitrogen wastewater sampling and analysis of reclaimed domestic to once per week.
- c) The Permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures.
- d) The Permittee shall conduct a physical inspection of the treatment system to detect abnormalities. The Permittee shall correct any abnormalities discovered. The Permittee shall submit a report to NMED detailing the corrections within 30 days of correction.
- e) In the event that any analytical results from weekly wastewater sampling indicate an exceedance of the total nitrogen discharge limit, the Permittee shall submit a CAP to NMED for approval proposing to modify operational procedures and/or upgrade the treatment process to achieve the total nitrogen limit. The Permittee shall submit the CAP including a schedule for completion of corrective actions and within 90 days of receipt of the analytical results of the second sample indicating that the discharge limit is continuing to be exceeded. The Permittee shall initiate implementation of the CAP following approval by NMED.

When analytical results from three consecutive weeks of wastewater sampling do not exceed the discharge limit, the Permittee may request NMED authorize a return to a monthly monitoring frequency.

[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]

29. In the event that analytical results of a reclaimed domestic wastewater sample indicate an exceedance of any of the maximum discharge limits for BOD₅, turbidity, or E. coli bacteria set by this Discharge Permit, the Permittee shall collect and submit for analysis a second sample within 24 hours after becoming aware of the exceedance. In the event the second sample results confirm the exceedance of the maximum discharge limits, the Permittee shall implement the Contingency Plan below.

In the event that analytical results of a reclaimed domestic wastewater sample indicate an exceedance of any of the 30-day average discharge limits for BOD₅, turbidity, or E. coli bacteria set by this Discharge Permit (i.e., confirmed exceedance), the Permittee shall implement the Contingency Plan below.

Contingency Plan

- a) Within 24 hours of becoming aware of a confirmed exceedance (as identified above),
 the Permittee shall:
 - i) notify NMED that the Permittee is implementing the Contingency Plan; and

- ii) submit copies of the recent analytical results indicating an exceedance to NMED.
- b) The Permittee shall immediately cease discharging reclaimed domestic wastewater to the reuse distribution system if the E. coli bacteria maximum limit is exceeded.
- c) The Permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures.
- d) The Permittee shall conduct a physical inspection of the reclamation system to detect abnormalities and shall correct any abnormalities discovered. The Permittee shall submit a report detailing the corrections made to NMED within 30 days following correction.

When the analytical results from samples of reclaimed domestic wastewater, sampled as required by this Discharge Permit, no longer indicate an exceedance of any of the maximum discharge limits, the Permittee may resume discharging reclaimed domestic wastewater to the reuse distribution system.

If the Facility is required to implement the Contingency Plan more than two times in a 12-month period, the Permittee shall propose to modify operational procedures and/or upgrade the treatment process to achieve consistent compliance with the maximum and 30-day average discharge limits by submitting a CAP for NMED approval. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions and submit the CAP within 60 days following receipt of the analytical results confirming the exceedance. The Permittee shall initiate implementation of the CAP following approval by NMED. NMED may require, prior to recommencing discharge to the reuse area, additional sampling of any stored reclaimed domestic wastewater.

[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]

30. In the event that a release occurs that is not authorized under this Discharge Permit (commonly known as a "spill"), the Permittee shall take measures to mitigate damage from the unauthorized discharge and initiate the notifications and corrective actions required in Section 20.6.2.1203 NMAC and summarized below.

Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information.

- a) The name, address, and telephone number of the person or persons in charge of the Facility, as well as of the owner and/or operator of the Facility.
- b) The name and address of the Facility.
- c) The date, time, location, and duration of the unauthorized discharge.
- d) The source and cause of unauthorized discharge.

Terms and Conditions e) A description of the unauthorized discharge, including its estimated chemical composition. f) The estimated volume of the unauthorized discharge. g) Any actions taken to mitigate immediate damage from the unauthorized discharge. Within one week following discovery of the unauthorized discharge, the Permittee shall submit written notification to NMED providing the information listed above and any pertinent updates. Within 15 days following discovery of the unauthorized discharge, the Permittee shall submit a Corrective Action Plan (CAP) to NMED describing any corrective actions previously taken and corrective actions to be taken relative to the unauthorized discharge. The CAP shall include the following information. a) A description of proposed actions to mitigate damage from the unauthorized discharge. b) A description of proposed actions to prevent future unauthorized discharges of this nature. c) A schedule for completion of proposed actions. In the event that the unauthorized discharge causes or may with reasonable probability cause water pollution in excess of the standards and requirements of Section 20.6.2.4103 NMAC, and the water pollution will not be abated within 180 days after notice is required to be given pursuant to Paragraph (1) of Subsection A of 20.6.2.1203 NMAC, NMED may require the Permittee to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC. The Permittee shall not construe anything in this condition as relieving them of the obligation to comply with all requirements of Section 20.6.2.1203 NMAC. [20.6.2.1203 NMAC] 31. In the event that NMED or the Permittee identifies any failures of the discharge plan, i.e., the application, or this Discharge Permit not specifically noted herein, NMED may require the Permittee to submit a CAP and a schedule for completion of corrective actions to address the failure(s). Additionally, NMED may require a discharge permit modification to achieve compliance with 20.6.2 NMAC.

[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]

D. CLOSURE PLAN

Permanent Facility Closure Conditions

#	Terms and Conditions
32.	The Permittee shall perform the following closure measures in the event the Facility, or a component of the Facility, is proposed to be permanently closed.
	 Within 90 days of ceasing to discharge to the reclamation system, the Permittee shall complete the following closure measures. a) Plug the line leading to the system so that a discharge can no longer occur. b) Reclaimed wastewater shall be discharged from the system to the reuse area as authorized by this Discharge. The discharge of accumulated solids (sludge) to the reuse area is prohibited.
	c) Contain, transport, and dispose of solids removed from the reclamation system in accordance with all local, state, and federal regulations, including 40 CFR Part 503. The Permittee shall maintain a record of all solids transported for off-site disposal.
	Within <u>180 days</u> of ceasing to discharge to the reclamation system (or unit), the Permittee shall complete the following closure measures.
	a) Remove all lines leading to and from the reclamation system, or permanently plug and abandon them in place.
	b) Remove or demolish all reclamation system components, and re-grade the area with suitable fill to blend with surface topography, promote positive drainage and prevent ponding.
	When the Permittee has met all closure and post-closure requirements and verified appropriate actions with date stamped photographic evidence or an associated NMED inspection, the Permittee may submit to NMED a written request, including photographic evidence, for termination of the Discharge Permit.
	[Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]

E. GENERAL TERMS AND CONDITIONS

#	Terms and Conditions
33.	RECORD KEEPING - The Permittee shall maintain a written record of the following: • Information and data used to complete the application for this Discharge Permit; • Information, data, and documents demonstrating completion of closure activities;
	 Any releases (commonly known as "spills") not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC;

- The operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater;
- Facility record drawings (plans and specifications) showing the actual construction of the Facility and bear the seal and signature of a licensed New Mexico professional engineer;
- Copies of logs, inspection reports, and monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit;
- The volume of wastewater or other wastes discharged pursuant to this Discharge Permit:
- Groundwater quality and wastewater quality data collected pursuant to this Discharge Permit;
- Copies of construction records (well log) for all sampled groundwater monitoring wells pursuant to this Discharge Permit;
- The maintenance, repair, replacement or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit; and
- Data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit, including:
 - the dates, location and times of sampling or field measurements;
 - the name and job title of the individuals who performed each sample collection or field measurement;
 - o the sample analysis date of each sample
 - o the name and address of the laboratory, and the name of the signatory authority for the laboratory analysis;
 - the analytical technique or method used to analyze each sample or collect each field measurement;
 - o the results of each analysis or field measurement, including raw data;
 - o the results of any split, spiked, duplicate or repeat sample; and
 - o a copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used.

The Permittee shall maintain the written record at a location accessible to NMED during a Facility inspection for the lifetime of the Discharge Permit. The Permittee shall make the record available to the department upon request.

[Subsections A and D of 20.6.2.3107 NMAC]

34. SUBMITTALS – The Permittee shall submit both a paper copy and an electronic copy of all notification and reporting documents required by this Discharge Permit, e.g., monitoring reports. The Permittee shall submit paper and electronic documents to the NMED Permit Contact identified on the Permit cover page.

#	Terms and Conditions
	[Subsection A of 20.6.2.3107 NMAC]
35.	INSPECTION and ENTRY – The Permittee shall allow NMED to inspect the Facility and its operations that are subject to this Discharge Permit and the WQCC regulations. NMED may upon presentation of proper credentials, enter at reasonable times upon or through any premises in which a water contaminant source is located or in which any maintained records required by this Discharge Permit, the regulations of the federal government, or the WQCC are located.
	The Permittee shall allow NMED to have access to and reproduce for their use any copy of the records, and to perform assessments, sampling or monitoring during an inspection for the purpose of evaluating compliance with this Discharge Permit and the WQCC regulations. No person shall construe anything in this Discharge Permit as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other local, state or federal regulations.
	[Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]
36.	DUTY to PROVIDE INFORMATION - The Permittee shall, upon NMED's request, allow for NMED's inspection/duplication of records required by this Discharge Permit and/or furnish to NMED copies of such records.
	[Subsection D of 20.6.2.3107 NMAC]
37.	MODIFICATIONS and/or AMENDMENTS – In the event the Permittee proposes a change to the Facility or the Facility's discharge that would result in a change in the volume discharged; the location of the discharge; or in the amount or character of water contaminants received, treated or discharged by the Facility, the Permittee shall notify NMED prior to implementing such changes. The Permittee shall obtain NMED's approval (which may require modification of this Discharge Permit) prior to implementing such changes.
	[Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]
38.	PLANS and SPECIFICATIONS — In the event the Permittee proposes to construct a wastewater system or change a process unit of an existing system such that the quantity or quality of the discharge will change substantially from that authorized by this Discharge Permit, the Permittee shall submit construction plans and specifications of the

proposed system or process unit to NMED for approval prior to the commencement of construction.

In the event the Permittee implements changes to the wastewater system authorized by this Discharge Permit that result in only a minor effect on the character of the discharge, the Permittee shall report such changes (including the submission of record drawings where applicable) to NMED prior to implementation.

[Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]

CIVIL PENALTIES - Any violation of the requirements and conditions of this Discharge 39. Permit, including any failure to allow NMED staff to enter and inspect records or facilities, or any refusal or failure to provide NMED with records or information, may subject the Permittee to a civil enforcement action. Pursuant to WQA 74-6-10(A) and (B), such action may include a compliance order requiring compliance immediately or in a specified time, assessing a civil penalty, modifying or terminating the Discharge Permit, or any combination of the foregoing; or an action in district court seeking injunctive relief, civil penalties, or both. Pursuant to WQA 74-6-10(C) and 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the WQA 74-6-5, the WQCC Regulations, or this Discharge Permit, and civil penalties of up to \$10,000 per day of noncompliance may be assessed for each violation of any other provision of the WQA, or any regulation, standard, or order adopted pursuant to such other provision. In any action to enforce this Discharge Permit, the Permittee waives any objection to the admissibility as evidence of any data generated pursuant to this Discharge Permit.

[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]

40. | CRIMINAL PENALTIES – No person shall:

- Make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or maintained under the WQA;
- Falsify, tamper with or render inaccurate any monitoring device, method or record maintained under the WQA; or
- Fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation.

Any person who knowingly violates or knowingly causes or allows another person to violate the requirements of this condition is guilty of a fourth-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who is convicted of a second or subsequent violation of the requirements of this condition is

#	Terms and Conditions
	guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition or knowingly causes another person to violate the requirements of this condition and thereby causes a substantial adverse environmental impact is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition and knows at the time of the violation that he is creating a substantial danger of death or serious bodily injury to any other person is guilty of a second degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15.
41.	COMPLIANCE with OTHER LAWS - Nothing in this Discharge Permit shall be construed in any way as relieving the Permittee of the obligation to comply with any other applicable federal, state, and/or local laws, regulations, zoning requirements, nuisance ordinances, permits or orders. [NMSA 1978, § 74-6-5.L]
42.	RIGHT to APPEAL - The Permittee may file a petition for review before the WQCC on this Discharge Permit. Such petition shall be in writing to the WQCC within thirty days of the receipt of postal notice of this Discharge Permit and shall include a statement of the issues raised and the relief sought. Unless the Permittee files a timely petition for review, the decision of NMED shall be final and not subject to judicial review.
43.	 [20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.0] TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall: Notify the proposed transferee in writing of the existence of this Discharge Permit; Include a copy of this Discharge Permit with the notice; and Deliver or send by certified mail to NMED a copy of the notification and proof that the proposed transferee has received such notification. The Permittee shall continue to be responsible for any discharge from the Facility, until both ownership and possession of the Facility have been transferred to the transferee. [20.6.2.3111 NMAC]
44.	PERMIT FEES – The Permittee shall be aware that the payment of permit fees is due at the time of Discharge Permit approval. The Permittee may pay the permit fees in a single

payment or they may pay the fee in equal installments on a yearly basis over the term of the Discharge Permit. The Permittee shall remit single payments to NMED no later than 30 days after the Discharge Permit issuance date. The Permittee shall remit initial installment payments to NMED no later than 30 days after the Discharge Permit issuance date; with subsequent installment payments remitted to NMED no later than the anniversary of the Discharge Permit issuance date.

Permit fees are associated with <u>issuance</u> of this Discharge Permit. No person shall construe anything in this Discharge Permit as relieving the Permittee of the obligation to pay all permit fees assessed by NMED. A Permittee that ceases discharging or does not commence discharging from the Facility during the term of the Discharge Permit shall pay all permit fees assessed by NMED. NMED shall suspend or terminate an approved Discharge Permit if the Permittee fails to remit an installment payment by its due date.

[Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]