

NEW MEXICO

**ENVIRONMENT DEPARTMENT** Ground Water Quality Bureau

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www.env.nm.gov



Draft: August 18, 2020

## GROUND WATER QUALITY BUREAU DISCHARGE PERMIT Issued under 20.6.2 NMAC

Facility Name: Discharge Permit Number: Facility Location:

County:

**Permittee:** Mailing Address:

Facility Contact: Telephone Number/Email:

**Permitting Action:** 

Permit Issuance Date: Permit Expiration Date:

NMED Permit Contact: Telephone Number/Email: DP-118 200 Alto Alps Road Alto, NM 88312

Alto Alps Condominiums

Lincoln

Alto Alps Homeowners Association Paul Heath, Manager P.O. Box 59 Alto, NM 88312

Tony Medina (575) 430-3580/watersolutions@live.com

**Renewal and Modification** 

DATE DATE

Avery Young (505) 827-2909/avery.young@state.nm.us

MICHELLE HUNTER Chief, Ground Water Quality Bureau New Mexico Environment Department Date

#### TABLE OF CONTENTS

Ι.	INT	IRODUCTION
II.	FIN	IDINGS2
III.	AU	THORIZATION TO DISCHARGE
IV.	со	NDITIONS
	Α.	OPERATIONAL PLAN
	В.	MONITORING AND REPORTING7Due Dates for Monitoring Reports8Monitoring Actions with Implementation Deadlines8Groundwater Monitoring Conditions9Facility Monitoring Conditions10
	C.	CONTINGENCY PLAN
	D.	CLOSURE PLAN
	E.	GENERAL TERMS AND CONDITIONS
ΑΤΤΑϹ	HM	ENTS
	Dis	charge Permit Summary
	Ne	w Mexico Environment Department Ground Water Quality Bureau Monitoring Well
		Construction and Abandonment Guidelines, Revision 1.1, March 2011

Land Application Data Sheet (LADS - <u>https://www.env.nm.gov/gwb/forms.htm</u>)

#### I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit renewal and modification (Discharge Permit or DP-118) to the Alto Alps Homeowners Association (Permittee) 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 Alto Alps Condominiums (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 Sequencing Batch Reactor (SBR) wastewater treatment facility (WWTF) receives and treats domestic wastewater at a volume of up to 32,500 gallons per day (gpd). Treated wastewater is discharged to subsurface irrigation systems or areas for disposal.

The Discharge Permit modification consists of an increase in the maximum daily discharge volume from 12,500 to 32,500 gpd.

The Facility is located at 200 Alto Alps Road on the corner of Highway 48 and Sun Valley Road, Alto, in Section 28, Township 10S, Range 13E, Lincoln County. Groundwater most likely to be affected is at a depth of approximately 30 feet and has a total dissolved solids (TDS) concentration of approximately 1,579 milligrams per liter.

NMED issued the original Discharge Permit on February 27, 1981 and subsequently renewed the Permit on March 22, 1987, September 11, 1992, and December 23, 1999, and renewed and modified the Permit on September 12, 2007 and May 27, 2014. The application (i.e., discharge plan) consists of the materials submitted by Tony Medina, Water Technology Solutions on behalf of the Permittee dated March 23, 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 that structural controls and/or management practices approved under this Discharge Permit need to be more stringent to protect groundwater quality. NMED reserves the right to require the Permittee implement abatement of water pollution and remediate groundwater quality.

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.

Abbreviation	Explanation	Abbreviation	n Explanation
BOD <sub>5</sub>	biochemical oxygen demand	NMSA	New Mexico Statutes
	(5-day)		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	totalnitroge	$n = TKN + NO_3 - N$
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
MPN	most probable number	WQCC	Water Quality Control
			Commission
NMAC	New Mexico Administrative	WWTF	Wastewater Treatment
	Code		Facility
NMED	New Mexico Environment		
	Department		

This Discharge Permit may use the following acronyms and abbreviations.

#### 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. Pursuant to this Discharge Permit and Section 20.6.2.3104 NMAC, the Permittee is allowed to discharge effluent or leachate from the Facility directly or indirectly into groundwater.
- 3. The discharge from the Facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC, including Subsection 20.6.2.3105.A which allows an exemption from obtaining a discharge permit if the discharge is composed of effluent or leachate which conforms to all the standards in Subsection A, B, and C of Section 20.6.2.3103 NMAC and has a total nitrogen concentration of 10 mg/L or less.

#### 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 is to receive and treat up to 32,500 gpd of domestic wastewater using an SBR WWTF with an Oxidation Reduction Potential (ORP) sensor/process controller. The Permittee is authorized to discharge treated wastewater to up to eight areas of subsurface irrigation systems totaling approximately 5.89 acres.

[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 such that standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC are not violated.
	[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.	A minimum of 90 days prior to construction of any subsurface irrigation area, designated as Area B (0.42 acres), Area D (0.36 acres), Area E (0.45 acres), Area F (0.7 acres), Area G (0.5 acres) and Area H (0.5 acres) in the document submitted to NMED (submitted December 11, 2013, by Tony Medina, operator of record), the Permittee shall submit final construction plans and specifications for NMED's review for the proposed subsurface irrigation systems. The construction plans and specifications shall bear the seal and signature of a licensed New Mexico professional engineer (pursuant to New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority) and shall include the supporting design calculations.
	<ul> <li>The submitted documentation shall include the following elements.</li> <li>a) Wastewater system components design, e.g., lift stations, valves, transfer lines, process units and associated details;</li> <li>b) The infrastructure necessary to discharge wastewater to a subsurface irrigation system(s). The absorption area shall be sized to accommodate the maximum daily volume of wastewater discharged at the maximum allowable total nitrogen limit designated in this Discharge Permit while not exceeding the nitrogen loading limit of 200 pounds per acre in any 12-month period.</li> <li>c) Flow meters to measure the volume of wastewater discharged from the WWTF to the subsurface irrigation system(s).</li> <li>d) Specifications for all equipment, materials and installation procedures the Permittee will use in the construction of the subsurface irrigation system(s).</li> <li>Prior to constructing the subsurface irrigation systems and its associated components, the Permittee shall obtain written verification from NMED that the plans and specifications meet the requirements of this Discharge Permit.</li> </ul>
	[Subsections A and C 20.6.2.1202 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection C of 20.6.2.3107 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
4.	A minimum of 90 days prior to construction of the grey water systems from the individual condos, the Permittee shall submit a proposal to NMED. The submitted documentation shall include the following elements:
	<ul> <li>a) Wastewater system components design, e.g., lift stations, valves, transfer lines, process units and associated details;</li> <li>b) The infrastructure necessary to discharge grey water to a subsurface irrigation system(s). The absorption area shall be sized to accommodate the maximum daily volume of wastewater discharged at the maximum allowable total nitrogen limit</li> </ul>

#	Terms and Conditions
	<ul> <li>designated in this Discharge Permit while not exceeding the nitrogen loading limit of 200 pounds per acre in any 12-month period.</li> <li>c) Specifications for all equipment, materials and installation procedures the Permittee will use in the construction of the wastewater system.</li> </ul>
	Prior to constructing the grey water subsurface irrigation systems and its associated components, the Permittee shall obtain written verification from NMED that the plans and specifications meet the requirements of this Discharge Permit.
	[Subsections A and C 20.6.2.1202 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection C of 20.6.2.3107 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
5.	Prior to discharging to the 0.7-acre subsurface irrigation system designated as Area F, the Permittee shall complete construction in accordance with the final construction plans and specifications submitted to NMED (submitted on December 11, 2013 by Tony Medina, operator of record). The Permittee shall notify NMED at the commencement of construction to allow NMED personnel to be onsite for inspection during construction.
	[Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3109 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
6.	Prior to discharging to the SBR components, the Permittee shall complete construction in accordance with the final construction plans and specifications submitted to NMED (dated February 26, 2020) by the professional engineer of record. The Permittee shall notify NMED at the commencement of construction to allow NMED personnel to be onsite for inspection during construction.
	[Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3109 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
7.	Within 30 days of completing construction of subsurface irrigation system Area F and the SBR components, the Permittee shall submit record drawings to NMED that bear the seal and signature of a licensed New Mexico professional engineer (pursuant to the New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority) for the constructed subsurface irrigation system Area F and the SBR components.
	[Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3109 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]

# **Operating Conditions**

#	Terms and Conditions
8.	The Permittee shall ensure that treated wastewater discharged from the dosing tank does not exceed the following discharge limit.
	Total Nitrogen: 15 mg/L
	[Subsection C of 20.6.2.3109 NMAC]
9.	The Permittee shall discharge treated wastewater to the subsurface irrigation systems such that the amount of total nitrogen discharged does not exceed 200 pounds per acre in any 12-month period. The Permittee shall not adjust nitrogen content to account for volatilization or mineralization processes. The Permittee shall distribute wastewater evenly throughout the entire disposal area. [Subsection C of 20.6.2.3109 NMAC]
10.	The Permittee shall secure the WWTF to restrict access by the general public and animals. The Permittee shall maintain access controls 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]
11.	The Permittee shall install and maintain signs indicating that the wastewater at the Facility is not potable. The Permittee shall post signs at the WWTF entrance and other areas where there is potential for public contact with wastewater. The signs shall be printed in English and Spanish and shall 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]
12.	The Permittee shall visually inspect the area above the subsurface irrigation systems (disposal system) semi-annually to ensure proper maintenance. The Permittee shall correct any conditions that indicate damage to the disposal system. The Permittee shall ensure conditions corrected include erosion damage, animal activity/damage, evidence of seepage, or any other condition indicating damage.
	The Permittee shall keep a log of each inspection that includes a date of the inspection, any findings and repairs, and the name of the inspector. The Permittee shall make the log available to NMED upon request.

#	Terms and Conditions
	In the event of a failure of the disposal system, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit.
	[Subsections A and D of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
13.	The Permittee shall properly manage all solids generated by the treatment system to maintain effective operation of the system by removing solids as necessary and in accordance with associated equipment manufacturer's specifications. The Permittee shall contain, transport and dispose of all solids removed from the treatment process in accordance with all local, state, and federal regulations. The Permittee shall maintain manifests for all solids transported from the treatment Facility for off-site disposal. The manifests shall identify the name of the hauler, the date of off-site shipment, the volume of solids removed, the disposal method, and disposal location. The Permittee shall make the manifests available to NMED upon request. [Subsection A of 20.6.2.3107 NMAC, Subsection C –f 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.

#	Terms and Conditions
	[Subsection B of 20.6.2.3107 NMAC]
17.	<ul> <li>Quarterly monitoring: The Permittee shall perform monitoring during the following periods and shall submit quarterly reports to NMED by the following due dates:</li> <li>January 1<sup>st</sup> through March 31<sup>st</sup> – due by May 1<sup>st</sup>;</li> <li>April 1<sup>st</sup> through June 30<sup>th</sup> – due by August 1<sup>st</sup>;</li> <li>July 1<sup>st</sup> through September 30<sup>th</sup> – due by November 1<sup>st</sup>; and</li> <li>October 1<sup>st</sup> through December 31<sup>st</sup> – due by February 1<sup>st</sup>.</li> </ul>

# Monitoring Actions with Implementation Deadlines

#	Terms and Conditions		
18.	<ul> <li>Prior to discharging to subsurface irrigation Area F, the Permittee shall submit a written groundwater monitoring well location proposal for NMED review and approval. The Permittee shall ensure the proposal includes, at a minimum, the following information.</li> <li>a) A map showing the proposed location of the monitoring well in relation to the boundary of the source it is intended to monitor.</li> <li>b) A written description of the specific location proposed for the monitoring well including the distance (in feet) and direction of the monitoring well from the edge of the source it is intended to monitor. Examples include: 35 feet north-northwest of the northern berm of the synthetically lined impoundment; 45 feet due south of the leachfield; and 30 feet southeast of the re-use area 150 degrees from north.</li> <li>c) A statement describing the groundwater flow direction beneath the Facility and documentation and/or data supporting the determination.</li> </ul>		
	The Permittee must have NMED's approval of all monitoring well locations prior to their installation.		
	[Subsection A of 20.6.2.3107 NMAC]		
19.	<ul> <li>Prior to discharging to subsurface irrigation Area F, the Permittee shall install the following new monitoring well.</li> <li>One monitoring well (MW-3) located 20 to 50 feet hydrologically downgradient of Area F.</li> </ul>		
	The Permittee shall complete the well in accordance with the attachment titled New Mexico Environment Department Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines, Revision 1.1, March 2011.		

#	Terms and Conditions
	Unless otherwise noted in this Discharge Permit, the requirement to install a monitoring well downgradient of a source is <u>not</u> contingent upon construction of the Facility, or discharge of wastewater from the Facility. [Subsection A of 20.6.2.3107 NMAC]
20.	Within 60 days following the installation of MW-3, the Permittee shall perform a geographical survey of all groundwater monitoring wells approved by NMED for Discharge Permit monitoring purposes. The survey shall be tied or referenced to a U.S. Geological Survey (USGS) or other permanent benchmark. Survey data shall include northing, easting and elevation to the nearest hundredth of a foot or shall be in accordance with the "Minimum Standards for Surveying in New Mexico" (12.8.2 NMAC). The Permittee shall utilize the survey to establish an elevation at the top-of-casing, with a permanent marking indicating the point of elevation. The survey shall bear the seal and signature of a licensed New Mexico professional surveyor (pursuant to the New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority). The Permittee shall measure depth-to-most-shallow groundwater to the nearest hundredth of a foot in all surveyed wells and referenced to mean sea level and shall utilize the data to develop a groundwater elevation contour map showing the location of all monitoring wells and the direction and gradient of groundwater flow at the Facility. The Permittee shall submit the data, a groundwater elevation contour map, and a Facility layout map showing the location and number of each well to NMED within 30 days of survey completion.

# Groundwater Monitoring Conditions

#	Terms and Conditions
21.	The Permittee shall perform quarterly groundwater sampling in the following groundwater monitoring wells and analyze the samples for TKN, NO <sub>3</sub> -N, TDS and Cl.
	<ul> <li>a) MW-1, intended to be located hydrologically downgradient of subsurface irrigation Area C.</li> </ul>
	<ul> <li>b) MW-2, intended to be located hydrologically downgradient of subsurface irrigation Area A, Zones 1 through 4, and located off the southeast corner of Zone 4.</li> <li>c) MW-3, intended to be located hydrologically downgradient of subsurface irrigation</li> </ul>

#	Terms and Conditions
	<ul> <li>Area F.</li> <li>The Permittee shall perform groundwater sample collection, preservation, transport and analysis according to the following procedures.</li> <li>a) Measure the depth-to-most-shallow groundwater from the top of the well casing to the nearest hundredth of a foot.</li> <li>b) Purge three well volumes of water from the well prior to sample collection.</li> <li>c) Obtain samples from the well for analysis.</li> <li>d) Properly prepare, preserve and transport samples.</li> <li>e) Analyze samples in accordance with the methods authorized in this Discharge Permit.</li> </ul>
	The Permittee shall submit the depth-to-most-shallow groundwater measurements and laboratory analytical data results, including the QA/QC summary report, to NMED in the quarterly monitoring reports. [Subsection A of 20.6.2.3107 NMAC]
22.	NMED shall have the option to perform downhole inspections of all groundwater monitoring wells identified in this Discharge Permit. NMED shall establish the inspection date and provide at least a 60-day notice to the Permittee by certified mail. The Permittee shall remove any existing dedicated pumps at least 48 hours prior to NMED inspection to allow adequate settling time of sediment agitated from pump removal. Should a Facility not have existing dedicated pumps but decide to install pumps in any of the monitoring wells, the Permittee shall notify NMED at least 90 days prior to pump installation so that NMED can schedule a downhole well inspection(s) prior to pump placement.
	[Subsections A and D of 20.6.2.3107 NMAC]

# Facility Monitoring Conditions

#	Terms and Conditions
23.	The Permittee shall measure the monthly volume discharged to <i>each</i> area within the subsurface irrigation system using a totalizing flow meter. The meter shall be located on the transfer line between the effluent line from the WWTF and the subsurface irrigation system.
	The Permittee shall maintain a log that records the date that discharges occur to <i>each</i> area and the monthly totalizing meter readings and units of measurement. The

#	Terms and Conditions
	Permittee shall use the log to calculate the total monthly volume of treated wastewater discharged to <i>each</i> area. The Permittee shall also use the monthly volume discharged to <i>each</i> location on the LADS (copy enclosed) to calculate nitrogen loading. The Permittee shall submit a copy of the log to NMED in the quarterly monitoring reports.
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
24.	The Permittee shall ensure that all flow meters are 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, once within 90 days of the issuance date of this Discharge Permit ( <b>by DATE</b> ). The Permittee shall ensure each flow meter is calibrated 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. Field calibrations shall be performed by an individual knowledgeable in flow measurement and in the installation/operation of the particular device in use. The Permittee shall prepare aflow meter calibration report for each flow meter prior to adjustment. The flow meter calibration end the individual knowledgeable in flow as determined by an in-field calibration. 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. f) The name of the individual performing the calibration and the date of the calibration.
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
25.	The Permittee shall visually inspect flow meters on a monthly basis for evidence of malfunction. The Permittee shall maintain a log of the flow meter inspections that includes a date of the inspection, all findings and repairs, and the name of the inspector. The Permittee shall make the log available to NMED upon request.

#	Terms and Conditions
	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 <i>repaired</i> 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 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 to NMED with the next monitoring report following the replacement 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]
26.	<ul> <li>The Permittee shall collect samples of treated wastewater from the dosing tank on a quarterly basis and analyze the samples for: <ul> <li>TKN;</li> <li>NO<sub>3</sub>-N;</li> <li>TDS; and</li> <li>Cl.</li> </ul> </li> <li>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 quarterly monitoring report.</li> <li>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</li> </ul>
27.	The Permittee shall complete individual LADS on a monthly basis that document the amount of nitrogen applied to each subsurface irrigation system during the most recent 12 months. The LADS shall reflect the total nitrogen concentration from the most recent wastewater analysis and the measured discharge volumes to subsurface irrigation system for each month. The Permittee shall complete the LADS with the information above or include a statement that the discharge of treated wastewater did not occur. The Permittee shall submit the LADS to NMED in the subsequent quarterly monitoring report. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
28.	The Permittee shall submit records of solids disposal, including the volume of solids removed and copies of all associated manifests for the previous calendar year, to NMED annually in the monitoring report due by August 1 <sup>st</sup> each year.

#### # Terms and Conditions

[Subsection A of 20.6.2.3107	NMAC]
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### C. CONTINGENCY PLAN

#	Terms and Conditions
29.	In the event that groundwater monitoring indicates that groundwater exceeds a standard identified in Section 20.6.2.3103 NMAC, the Permittee shall collect a confirmatory sample from the monitoring well within 15 days of receipt of the initial sampling results to confirm the initial sampling results.
	Within 60 days of confirmation of groundwater contamination, the Permittee shall submit to NMED a Corrective Action Plan (CAP) that proposes, at a minimum, source control measures and an implementation schedule. The Permittee shall the CAP as approved by NMED.
	Once invoked (whether during the term of this Discharge Permit or after the term of this Discharge Permit and prior to the completion of the Discharge Permit closure plan requirements), this condition shall apply until the Permittee has fulfilled the requirements of this condition and groundwater monitoring confirms for a minimum of eight (8) consecutive quarterly samples that groundwater does not exceed the standards of Section 20.6.2.3103 NMAC.
	If the groundwater standard continues to be violated 180 days after the confirmation of groundwater contamination, 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.
20	[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]
30.	In the event that information available to NMED indicates that a well is not constructed in a manner consistent with the attachment titled <i>New Mexico Environment Department</i> <i>Ground Water Quality Bureau Monitoring Well Construction and Abandonment</i> <i>Guidelines</i> , Revision 1.1, March 2011 (Monitoring Well Guidance); contains insufficient water to effectively monitor groundwater quality; or is otherwise not completed in a manner that is protective of groundwater quality, the Permittee shall install a replacement well(s) within 120 days following notification from NMED.

#	Terms and Conditions
	The Permittee shall install replacement wells at locations approved by NMED and completed in accordance with the Monitoring Well Guidance. The Permittee shall survey the replacement monitoring wells within 30 days following well completion. The Permittee shall submit construction and lithologic logs, survey data and a groundwater elevation contour map for the Facility to NMED within 60 days following well completion. The Permittee shall properly plug and abandon the monitoring well requiring replacement upon completion of the replacement monitoring well. The Permittee shall complete the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the Monitoring Well Guidance, and all applicable local, state, and federal regulations. The Permittee shall submit well abandonment documentation to NMED within 60 days of completion of well plugging activities.
	[Subsection A of 20.6.2.3107 NMAC]
31.	In the event that groundwater flow information obtained pursuant to this Discharge Permit indicates that a monitoring well is not appropriately located, e.g., hydrologically downgradient of the discharge location it is intended to monitor, the Permittee shall install a replacement well within 120 days following notification from NMED. The Permittee shall install replacement wells completed in accordance with the Monitoring Well Guidance. The Permittee shall survey the replacement monitoring well within 30 days following well completion and shall submit construction and lithologic logs, survey data, and a groundwater elevation contour map within 60 days following well completion.
	[Subsection A of 20.6.2.3107 NMAC]
32.	<ul> <li>In the event that analytical results of a treated 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.</li> <li>a) Within 7 days of the second sample analysis date indicating exceedance of the discharge limit, the Permittee shall: <ul> <li>i) notify NMED that the Permittee is implementing the Contingency Plan; and</li> <li>ii) submit a copy of the first and second analytical results indicating an exceedance to NMED.</li> </ul> </li> </ul>
	b) The Permittee shall increase the frequency of total nitrogen wastewater sampling

#	Terms and Conditions
	<ul> <li>and analysis of treated wastewater to once per month.</li> <li>c) The Permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures.</li> <li>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.</li> </ul>
	e) In the event that any analytical results from monthly wastewater sampling indicate an exceedance of the total nitrogen discharge limit, the Permittee shall submit a Corrective Action Plan (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 months of wastewater sampling do not exceed the discharge limit, the Permittee may request NMED authorize a return to a quarterly monitoring frequency. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
33.	In the event that a LADS for a subsurface irrigation area show that the amount of nitrogen in wastewater applied in any 12-month period exceeds 200 pounds per acre, the Permittee shall propose the reduction of nitrogen loading to the subsurface irrigation are or system by submitting a CAP to NMED for approval. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions and is submitted within 90 days following the end of the monitoring period in which the exceedance occurred. The Permittee shall implement the CAP following approval by NMED.
34.	<ul> <li>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</li> <li>In the event that the Permittee identifies failure of the subsurface irrigation system, such as surfacing wastewater, the Permittee shall implement the following Contingency Plan.</li> <li>a) Within 24 hours following the discovered failure, the Permittee shall: <ul> <li>i) Notify NMED of the failure in accordance with the notification requirements described in the Contingency Plan for unauthorized discharges; and</li> <li>ii) Restrict public access to the area.</li> </ul> </li> <li>b) The Permittee shall conduct a physical inspection of the treatment and disposal system to identify additional potential failures and record them in the inspection log.</li> </ul>

#	Terms and Conditions
	c) The Permittee shall propose actions to address the failure and methods of correction by submitting a CAP to NMED for approval within 15 days following the discovered failure. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall initiate implementation of the CAP following NMED approval.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
35.	<ul> <li>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.</li> <li>Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information.</li> <li>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.</li> <li>b) The name and address of the Facility.</li> <li>c) The date, time, location, and duration of the unauthorized discharge.</li> <li>d) The source and cause of unauthorized discharge.</li> <li>e) A description of the unauthorized discharge.</li> <li>g) Any actions taken to mitigate immediate damage from the unauthorized discharge.</li> <li>within <u>one week</u> following discovery of the unauthorized discharge, the Permittee shall submit written notification to NMED with the information listed above and any pertinent updates.</li> </ul>
	<ul> <li>Within <u>15 days</u> following discovery of the unauthorized discharge, the Permittee shall submit a corrective action report/plan to NMED describing any corrective actions taken and/or to be taken relative to the unauthorized discharge that includes the following information.</li> <li>a) A description of proposed actions to mitigate damage from the unauthorized discharge.</li> <li>b) A description of proposed actions to prevent future unauthorized discharges of this nature.</li> <li>c) A schedule for completion of proposed actions.</li> <li>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</li> </ul>

#	Terms and Conditions
	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]
36.	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

#	Terms and Conditions
37.	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 <u>90 days</u> of ceasing to discharge to the treatment and disposal system, the Permittee shall complete the following closure measures.
	a) Plug the line leading to the WWTF so that a discharge can no longer occur.
	b) Evaporate wastewater in the system components or drain and dispose of the wastewater in accordance with all local, state, and federal regulations.
	c) Contain, transport, and dispose of solids removed from the treatment 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 treatment system (or unit), the Permittee shall complete the following closure measures.
	a) Remove all lines leading to and from the WWTF and the subsurface irrigation systems or permanently plug and abandon them in place.
	b) Remove or demolish all treatment system components, and re-grade the area with suitable fill to blend with surface topography, promote positive drainage and prevent ponding.

#	Terms and Conditions
	The Permittee shall continue groundwater monitoring until they meet the requirements of this condition and groundwater monitoring confirms for a minimum of eight (8) consecutive quarterly groundwater sampling events that the standards of Section 20.6.2.3103 NMAC are not exceeded in groundwater. This period is referred to as "post- closure."
	If at any time monitoring results show an exceedance of a groundwater quality standard in Section 20.6.2.3103 NMAC, the Permittee shall implement the Contingency Plan required by this Discharge Permit.
	Following notification from NMED that post-closure monitoring may cease, the Permittee shall plug and abandon the monitoring wells in accordance with the attachment titled <i>New Mexico Environment Department Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines</i> , Revision 1.1, March 2011.
	When the Permittee has met all closure and post-closure requirements and verified 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
38.	<ul> <li>RECORD KEEPING - The Permittee shall maintain a written record of:</li> <li>Information and data used to complete the application for this Discharge Permit;</li> <li>Any releases (commonly known as "spills") not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC;</li> <li>The operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater;</li> <li>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;</li> <li>Copies of logs, inspection reports, and monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit;</li> </ul>

#	Terms and Conditions
#	<ul> <li>The volume of wastewater or other wastes discharged pursuant to this Discharge Permit;</li> <li>Groundwater quality and wastewater quality data collected pursuant to this Discharge Permit;</li> <li>Copies of construction records (well log) for all sampled groundwater monitoring wells pursuant to this Discharge Permit;</li> <li>The maintenance, repair, replacement or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit; and</li> <li>Data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit, including: <ul> <li>the dates, location and times of sampling or field measurements;</li> <li>the name and job title of the individuals who performed each sample collection or field measurement;</li> <li>the sample analysis date of each sample</li> <li>the name and address of the laboratory, and the name of the signatory authority for the laboratory analysis;</li> <li>the results of each analysis or field measurement, including raw data;</li> <li>the results of any split, spiked, duplicate or repeat sample; and</li> <li>a copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used.</li> </ul> </li> <li>The Permittee shall maintain the written record at a location accessible to NMED during a Facility inspection for a lifetime of the Discharge Permit. The Permittee shall make the record available to the department upon request.</li> </ul>
	[Subsections A and D of 20.6.2.3107 NMAC]
39.	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.

#	Terms and Conditions
	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]
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40.	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]
41.	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 approval (which may require modification of this Discharge Permit) from NMED prior to implementing such changes.
	[Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]
42.	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]
43.	CIVIL PENALTIES - Any violation of the requirements and conditions of this Discharge 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,

#	Terms and Conditions
	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.
44.	<ul> <li>CRIMINAL PENALTIES – No person shall:</li> <li>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;</li> <li>Falsify, tamper with or render inaccurate any monitoring device, method or record maintained under the WQA; or</li> <li>Fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation.</li> </ul> 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 guilty of a third-degree felony and shall be sentenced in accordance sature person who knowingly violates the requirements of this condition or the requirements of this condition 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 or knowingly 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 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. <li>[20.6.2.1220 NMAC, NMSA 1978, § 74-6-10.2.A through 74-6-1</li>
45.	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

#	Terms and Conditions
	federal, state, and/or local laws, regulations, zoning requirements, nuisance ordinances, permits or orders.
	[NMSA 1978, § 74-6-5.L]
46.	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. [20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.0]
47.	<ul> <li>TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall: <ul> <li>Notify the proposed transferee in writing of the existence of this Discharge Permit;</li> <li>Include a copy of this Discharge Permit with the notice; and</li> <li>Deliver or send by certified mail to NMED a copy of the notification and proof that the proposed transferee has received such notification.</li> </ul> </li> <li>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.</li> </ul>
48.	<ul> <li>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. The Permittee shall remit issuance date; with subsequent installment payments remitted to NMED no later than the anniversary of the Discharge Permit issuance date.</li> <li>Permit fees are associated with issuance 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.</li> </ul>

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

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