



MICHELLE LUJAN GRISHAM  
GOVERNOR

JAMES C. KENNEY  
CABINET SECRETARY

**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

August 7, 2025

Nathan Bowser, Superintendent  
Artesia Country Club  
P.O. Box 1305  
Artesia, NM 88210

**RE: Draft Discharge Permit Renewal, DP-375, Artesia Country Club**

Dear Nathan Bowser:

The New Mexico Environment Department (NMED) hereby provides notice to Artesia Country Club of the proposed approval of Ground Water Discharge Permit Renewal, DP-375 (copy enclosed), pursuant to Subsection H of 20.6.2.3108 NMAC. NMED will publish notice of the availability of the draft Discharge Permit in the near future for public review and comment, and will forward a copy of that notice to you.

Prior to making a final ruling on the proposed Discharge Permit, NMED will allow 30 days from the date the public notice is published in the newspaper for any interested party, including the Discharge Permit applicant, i.e., yourself, to submit written comments and/or request a public hearing. A hearing request shall set forth the reasons why a hearing is requested. NMED will hold a hearing in response to a timely hearing request if the NMED Secretary determines there is substantial public interest in the proposed Discharge Permit.

Please review the enclosed draft Discharge Permit carefully. Please be aware that this Discharge Permit may contain conditions that require the permittee to implement operational, monitoring or closure actions by a specified deadline.

Please submit written comments or a request for hearing to my attention at the address below, via email to [kambray.townsend@env.nm.gov](mailto:kambray.townsend@env.nm.gov) or to [pps.general@env.nm.gov](mailto:pps.general@env.nm.gov), or directly into the NMED Public Comment Portal at <https://nmed.commentinput.com/comment/search>. If NMED does not receive written comments or a request for hearing during the public comment period, the draft Discharge Permit will become final.

Thank you for your cooperation during the review process. Feel free to contact me with any questions at (505) 538-0497 or [kambray.townsend@env.nm.gov](mailto:kambray.townsend@env.nm.gov).

Sincerely,

Kambray Townsend, Water Resource Professional

Encl: Draft Discharge Permit Renewal, DP-375  
cc: Nancy Peay, PE, Smith Engineering Company, [nancyp@smithengineering.pro](mailto:nancyp@smithengineering.pro)

**SCIENCE | INNOVATION | COLLABORATION | COMPLIANCE**

Ground Water Quality Bureau | 1190 Saint Francis Drive, PO Box 5469, Santa Fe, New Mexico 87502-5469  
Telephone (505) 827-2900 | [www.env.nm.gov/gwqb/](http://www.env.nm.gov/gwqb/)



**NEW MEXICO**  
**ENVIRONMENT DEPARTMENT**  
Ground Water Quality Bureau



1190 Saint Francis Drive / PO Box 5469  
Santa Fe, NM 87502-5469  
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[www.env.nm.gov](http://www.env.nm.gov)

***Draft: August 7, 2025***

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

**Facility Name:** Artesia Country Club  
**Discharge Permit Number:** DP-375  
**Facility Location:** 2701 W. Richey Avenue  
Artesia, NM 88210

**County:** Eddy

**Permittee:** Artesia Country Club  
**Mailing Address:** Nathan Bowser, Superintendent  
P.O. Box 1305  
Artesia, NM 88210

**Facility Contact:** Nathan Bowser, Superintendent  
**Telephone Number/Email:** (575) 937-6046 / [grounds@artesiaacc.com](mailto:grounds@artesiaacc.com)

**Permitting Action:** Renewal  
**Permit Issuance Date:** DATE  
**Permit Expiration Date:** DATE

**NMED Permit Contact:** Kambray Townsend  
**Telephone Number/Email:** 505-538-0497 / [kambray.townsend@env.nm.gov](mailto:kambray.townsend@env.nm.gov) or  
505-827-2900 / [pps.general@env.nm.gov](mailto:pps.general@env.nm.gov)

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**JUSTIN D. BALL**  
**Chief, Ground Water Quality Bureau**  
**New Mexico Environment Department**

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Date

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**ATTACHMENTS**

- Discharge Permit Summary
- Summary of Permit Conditions Requiring an Action
- New Mexico Environment Department Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines, Revision 1.1, March 2011 (Monitoring Well Guidance)
- Fertilizer Log

## I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit Renewal (Discharge Permit or DP-375) to the Artesia Country Club (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 Artesia Country Club (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.

Artesia Country Club receives Class 1B reclaimed domestic wastewater at a volume of up to 180,000 gallons per day (gpd) from the City of Artesia Wastewater Treatment Plant (WWTP), as authorized by DP-258. Reclaimed domestic wastewater is stored in a clay-lined impoundment where it is mixed with irrigation well water and then discharged to two clay-lined ornamental impoundments and to 80 acres of golf course turf and landscaping by sprinkler irrigation.

The Permittee also discharges up to 4,800 gpd of domestic wastewater from the golf course restroom and from a residence to two septic tank/leachfield systems.

### Discharge Permit Location Information:

Physical Address	2701 West Richey Avenue
Nearest Town/City	Artesia
Section, Township, Range	Section 12, Township 17 South, Range 25 East
County	Eddy
Depth to Groundwater	165 feet
Pre-Discharge TDS	400 milligrams per liter

### Discharge Permit Issuance History:

Original Permit Issuance	May 13, 1985
Permit Renewal	February 19, 1992
Permit Renewal	May 5, 1997

Permit Renewal	March 21, 2005
Permit Renewal	July 12, 2010
Permit Renewal	August 12, 2019

The application (i.e., discharge plan) associated with this Discharge Permit consists of the materials submitted by Smith Engineering Company on behalf of the Permittee dated May 8, 2024, 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 to 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 <sub>5</sub>	biochemical oxygen demand (5-day)	NMED	New Mexico Environment Department
CAP	Corrective Action Plan	NMSA	New Mexico Statutes Annotated
CFR	Code of Federal Regulations	NO <sub>3</sub> -N	nitrate-nitrogen
CFU	colony forming unit	NTU	nephelometric turbidity units
Cl	chloride	QA/QC	Quality Assurance/Quality Control
EPA	United States Environmental Protection Agency	TDS	total dissolved solids
Gpd	gallons per day	TKN	total Kjeldahl nitrogen
LAA	land application area	total nitrogen	= TKN + NO <sub>3</sub> -N
LADS	Land Application Data Sheet(s)	TRC	total residual chlorine
mg/L	milligrams per liter	TSS	total suspended solids

Abbreviation	Explanation	Abbreviation	Explanation
mL	milliliters	WQA	New Mexico Water Quality Act
MPN	most probable number	WQCC	Water Quality Control Commission
NMAC	New Mexico Administrative Code	WWTF	Wastewater Treatment 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 this Facility has the potential to 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 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 up to 180,000 gpd of Class 1B reclaimed domestic wastewater from the City of Artesia in accordance with DP-258. This Discharge Permit authorizes the Facility to store Class 1B reclaimed domestic wastewater in a clay-lined impoundment (Reuse Storage Impoundment) where it is mixed with irrigation well water. This Discharge Permit authorizes the Permittee to discharge Class 1B reclaimed domestic wastewater mixed with irrigation well water to two clay-lined ornamental impoundments (Hole #6 Pond and Hole #1 Fountain) and to 80 acres of golf course turf and landscaping by sprinkler irrigation. This Discharge Permit also authorizes the Permittee to discharge up to 4,800 gpd of domestic wastewater from the golf course restroom and a residence to two septic tank/leachfield systems.

[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 90 days following the issuance date of this Discharge Permit ( <b>by DATE</b> ), the Permittee shall install a locking mechanism for the reuse inlet valve enclosure at the Facility to control unauthorized access by the general public and animals. The Permittee shall submit documentation of the access control installation, consisting of a narrative statement describing the access control devices and date-stamped photographs, 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]
4.	Within 30 days following the issuance date of this Discharge Permit ( <b>by DATE</b> ), the Permittee shall post signs in English and Spanish at the Reuse Storage Impoundment, Hole #1 Fountain, and Hole #6 Pond. 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: <b>NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR.</b> The Permittee may submit alternate wording and/or graphics to NMED for approval.

#	Terms and Conditions
	<p>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.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>
5.	<p>Within 90 days of the issuance date of this Discharge Permit (<b>by DATE</b>), the Permittee shall mechanically remove vegetation growing around and within the reuse storage impoundment in a manner that is protective of the impoundment.</p> <p>Documentation of the mechanical removal of vegetation around and within the reuse storage impoundment shall consist of a narrative statement describing the date of removal, any findings and repairs, and date-stamped photographs. These documents shall be provided in the next required periodic monitoring report.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
6.	<p>Within 60 days following the issuance date of this Discharge Permit (<b>by DATE</b>), the Permittee shall conduct an inspection and test for water-tight construction on the Course Restroom septic tank and the Employee Residence septic tank. A person meeting the qualification requirements identified in Paragraph (2), Subsection B of 20.7.3.904 NMAC, Liquid Waste Disposal and Treatment Regulations shall perform the inspection and test.</p> <p>The Permittee shall perform the water-tightness inspection according to the following procedures:</p> <ul style="list-style-type: none"><li>a) Sampling of the contents of the unit and disposal of the contents in accordance with all local, state, and federal regulations, including 40 CFR Part 503. Inspection of the interior of the unit to determine the construction material, interior dimensions, and structural integrity.</li><li>b) Collect photographic documentation of the condition of the interior of the unit while the unit is empty.</li></ul> <p>Completion of water-tightness testing shall use one of the two following procedures.</p> <ul style="list-style-type: none"><li>a) <u>Conducting hydrostatic testing</u> using the following procedure.<ul style="list-style-type: none"><li>1) Plug the inlet and outlet piping of the unit.</li><li>2) Fill the unit with water to the normal operating level.</li><li>3) Measure the water level.</li><li>4) Allow the water to stand for 60 minutes without the addition of water.</li><li>5) Measure the water level at the end of 60 minutes.</li></ul></li></ul> <p>A unit that does not allow a drop-in water level of greater than 0.01 feet in 60</p>

#	Terms and Conditions
	<p>minutes is considered to be watertight.</p> <p style="text-align: center;">- OR -</p> <p>b) <u>Conducting vacuum testing</u> using the following procedure.</p> <ol style="list-style-type: none"><li>1) Seal all openings to the unit.</li><li>2) Apply a vacuum of 50 millimeters (mm) of mercury to the unit.</li><li>3) Allow the unit to stand for two minutes without the application of additional vacuum.</li></ol> <p>A watertight unit maintains at least 90% of the vacuum (i.e., greater than 45 mm of mercury) after two minutes.</p> <p>The Permittee shall maintain a record of all inspection findings and water-tightness testing, including, but not limited to, a narrative description of the processes and date-stamped photographs.</p> <p>The Permittee shall submit a report for each unit inspected/tested to NMED in the next required periodic monitoring report. The report shall include the date of the inspection/test, the name of the individual who conducted the test, written inspection findings, photographic documentation of the unit's interior, and water-tightness test results.</p> <p>In the event that water-tightness testing reveals that a unit is not watertight, or should inspection reveal damage to the unit that could result in structural failure, the Permittee shall notify NMED within 30 days of the inspection/test date.</p> <p>The Permittee shall implement the following corrective actions upon notification from NMED.</p> <ol style="list-style-type: none"><li>a) Within 90 days following notification from NMED, repair or replace the unit. If notified to do so by NMED, the Permittee shall submit plans and specifications for the proposed repair or replacement 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). The Permittee shall submit plans and specifications to NMED prior to construction for evaluation of compliance with the requirements of 20.6.2 NMAC.</li><li>b) Within 30 days following repair or replacement of the unit, repeat the water-tightness testing to verify the effectiveness of the repair or replacement, and submit a report to NMED. The report shall include the date of the inspection/test, the name of the individual that performed the inspection/test, written inspection findings, photographic documentation of the unit's interior and water tightness test results. If notified to do so by NMED, the Permittee shall also submit record drawings that</li></ol>

#	Terms and Conditions
	<p>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) that include the final construction details of the unit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
7.	<p>Within 90 days of the issuance date of this Discharge Permit (<b>by DATE</b>), the Permittee shall submit a sludge removal and disposal plan for the sludge stored to the south of the reuse storage impoundment to NMED for approval. The sludge removal and disposal plan shall include the following information.</p> <ol style="list-style-type: none"> <li>a) The estimated volume and dry weight of sludge planned to be removed and disposed of, including measurements and calculations.</li> <li>b) Laboratory analytical data results for samples of the sludge taken from the impoundment for TKN, NO<sub>3</sub>-N, percent total solids, and any other parameters tested (reported in mg/kg, dry weight basis).</li> <li>c) The method(s) of sludge <i>removal</i> from the impoundment.</li> <li>d) The method(s) of <i>disposal</i> for all of the sludge (and its contents) removed from the impoundment. The method(s) shall comply with all local, state, and federal regulations, including 40 CFR Part 503. <i>Note: A proposal that includes the surface disposal of sludge may be subject to Groundwater Discharge Permitting requirements pursuant to 20.6.2.3104 NMAC that are separate from the requirements of this Discharge Permit.</i></li> <li>e) A schedule for completion of sludge removal and disposal not to exceed 180 days from the issuance date of this Discharge Permit (<b>by DATE</b>).</li> </ol> <p>The Permittee shall initiate implementation of the plan within 30 days following approval by NMED.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]</p>
8.	<p>Within 90 days of the issuance date of this Discharge Permit (<b>by DATE</b>), the Permittee shall have the integrity of the Employee Residence leachfield (disposal system) evaluated for any condition that could indicate damage to or potential failure of the disposal system and submit the results of the evaluation to NMED.</p> <p>In the event that the evaluation identifies damage or failure of the disposal system, such as surfacing wastewater or collapsed portions, the Permittee shall implement the following Contingency Plan identified in Condition 49 of this Discharge Permit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>

**Operating Conditions**

#	Terms and Conditions																		
9.	<p>The Permittee shall ensure that reclaimed domestic wastewater discharged mixed with irrigation well water discharged from the discharged from the sprinkler irrigation system, does not exceed the following discharge limit.</p> <p><b>Total Nitrogen: 10 mg/L</b></p> <p>[Subsection C of 20.6.2.3109 NMAC]</p>																		
10.	<p>The Permittee shall only receive Class 1B reclaimed domestic wastewater that does not exceed the following discharge limits.</p> <table border="1" data-bbox="371 800 1349 1146"> <thead> <tr> <th data-bbox="378 808 638 842"><u>Test</u></th> <th data-bbox="638 808 997 842"><u>30-day Average</u></th> <th data-bbox="997 808 1343 842"><u>Maximum</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="378 842 638 896">Total Nitrogen</td> <td data-bbox="638 842 997 896"><b>N/A</b></td> <td data-bbox="997 842 1343 896"><b>10 mg/L</b></td> </tr> <tr> <td data-bbox="378 896 638 1014">Fecal coliform OR E. coli bacteria</td> <td data-bbox="638 896 997 1014"><b>100 CFU or MPN/100 mL OR 63 CFU or MPN/100 mL</b></td> <td data-bbox="997 896 1343 1014"><b>200 CFU or MPN/100 mL OR 126 CFU or MPN/100 mL</b></td> </tr> <tr> <td data-bbox="378 1014 638 1068">BOD<sub>5</sub></td> <td data-bbox="638 1014 997 1068"><b>30 mg/L</b></td> <td data-bbox="997 1014 1343 1068"><b>45 mg/L</b></td> </tr> <tr> <td data-bbox="378 1068 638 1102">TSS</td> <td data-bbox="638 1068 997 1102"><b>30 mg/L</b></td> <td data-bbox="997 1068 1343 1102"><b>30 mg/L</b></td> </tr> <tr> <td data-bbox="378 1102 638 1136">UV Transmissivity</td> <td data-bbox="638 1102 997 1136"><b>Monitor Only</b></td> <td data-bbox="997 1102 1343 1136"><b>Monitor Only</b></td> </tr> </tbody> </table> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>	<u>Test</u>	<u>30-day Average</u>	<u>Maximum</u>	Total Nitrogen	<b>N/A</b>	<b>10 mg/L</b>	Fecal coliform OR E. coli bacteria	<b>100 CFU or MPN/100 mL OR 63 CFU or MPN/100 mL</b>	<b>200 CFU or MPN/100 mL OR 126 CFU or MPN/100 mL</b>	BOD <sub>5</sub>	<b>30 mg/L</b>	<b>45 mg/L</b>	TSS	<b>30 mg/L</b>	<b>30 mg/L</b>	UV Transmissivity	<b>Monitor Only</b>	<b>Monitor Only</b>
<u>Test</u>	<u>30-day Average</u>	<u>Maximum</u>																	
Total Nitrogen	<b>N/A</b>	<b>10 mg/L</b>																	
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BOD <sub>5</sub>	<b>30 mg/L</b>	<b>45 mg/L</b>																	
TSS	<b>30 mg/L</b>	<b>30 mg/L</b>																	
UV Transmissivity	<b>Monitor Only</b>	<b>Monitor Only</b>																	
11.	<p>The Permittee shall ensure adherence to the following general requirements for above-ground use of reclaimed domestic wastewater.</p> <p>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:  <b>NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK.</b>  <b>AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR.</b>                      The Permittee may submit alternate wording and/or graphics to NMED for approval.</p> <p>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).</p> <p>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</p>																		

#	Terms and Conditions
	<p>crop. The Permittee shall not discharge reclaimed domestic wastewater at times when the reuse area is saturated or frozen.</p> <p>d) The Permittee shall confine discharge of reclaimed domestic wastewater to the reuse area.</p> <p>e) The Permittee shall not discharge reclaimed domestic wastewater to crops used for human consumption.</p> <p>f) Water supply wells within 200 feet of a reuse area shall have adequate wellhead construction pursuant to 19.27.4 NMAC.</p> <p>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.</p> <p>h) Valves, outlets, and sprinkler heads used in reclaimed wastewater systems shall be accessible only to authorized personnel.</p> <p>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.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1–78, § 74-6–5.D]</p>
12.	<p>The Permittee shall meet the following setbacks, access restrictions, and equipment requirements for spray irrigation using Class 1B reclaimed domestic wastewater.</p> <p>a) Maintain a minimum 100-foot setback between any dwellings or occupied establishments and the edge of the reuse area.</p> <p>b) Postpone irrigation using reclaimed domestic wastewater at times when windy conditions may result in drift of reclaimed wastewater outside the reuse area.</p> <p>c) Apply reclaimed domestic wastewater at times and in a manner that minimizes public contact.</p> <p>d) Limit spray irrigation system to low-trajectory spray nozzles.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1–78, § 74–5.D]</p>
13.	<p>The Permittee shall institute a backflow prevention method to protect wells and public water supply systems from contamination by reclaimed domestic wastewater prior to</p>

#	Terms and Conditions
	<p>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.</p> <p>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.</p> <p>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.</p> <p>[Subsection C of 20.6.2.3109 NMAC]</p>
14.	<p>The Permittee shall maintain locking mechanisms on the reuse valve enclosure at the Facility to restrict unauthorized access by the general public and animals throughout the term of this Discharge Permit.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p>
15.	<p>The Permittee shall maintain the impoundments to avoid conditions that could affect the structural integrity of the impoundments. Characterization of such conditions may include the following:</p> <ul style="list-style-type: none"><li>• erosion damage;</li><li>• animal burrows or other damage;</li><li>• the presence of vegetation including aquatic plants, weeds, woody shrubs or trees growing within five feet of the top inside edge of a sub-grade impoundment, within five feet of the toe of the outside berm of an above-grade impoundment, or within the impoundment itself;</li><li>• the presence of large debris or large quantities of debris in the impoundment;</li><li>• evidence of seepage; or</li><li>• evidence of berm subsidence.</li></ul>

#	Terms and Conditions
	<p>The Permittee shall control vegetation growing around the impoundments by mechanical removal that is protective of the impoundment.</p> <p>The Permittee shall visually inspect the impoundments and surrounding berms on a monthly basis to ensure proper maintenance. In the event that inspection reveals any evidence of damage that threatens the structural integrity of an impoundment berm or that may result in an unauthorized discharge, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit.</p> <p>The Permittee shall create and maintain a log of all impoundment inspections that describes the date of the inspection, any findings and repairs, and the name of the person responsible for the inspection. The Permittee shall provide the log to NMED upon request.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
16.	<p>The Permittee shall preserve a minimum of two feet of freeboard, i.e., the distance between the highest calculated liquid level in the impoundments and the liquid level which would result in the release of stored liquid from the impoundments.</p> <p>In the event that the Permittee determines that it cannot preserve two feet of freeboard in the impoundments, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
17.	<p>The Permittee shall visually inspect the area above the Course Restroom leachfield and the Employee Residence leachfield (disposal systems) 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.</p> <p>The Permittee shall keep a log of the inspections 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.</p> <p>In the event of a failure of the disposal system, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit.</p> <p>[Subsections A and D of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>

#	Terms and Conditions
18.	<p>The Permittee shall inspect the Course Restroom septic tank and the Employee Residence septic tank semi-annually for the accumulation of scum and solids. In the event that the scum layer exceeds three inches or the settled solids occupy 30% or more of the tank volume, the contents of the tanks shall be pumped by a septage pumper meeting the qualification requirements identified in Subsection D of 20.7.3.904 NMAC, Liquid Waste Disposal, and Treatment Regulations.</p> <p>The Permittee shall create and maintain a log of all septic tank inspections, which describes the findings, repairs, and removals, the date of the inspection, and the name of the person responsible for the inspection. The Permittee shall make the log available to NMED upon request.</p> <p>The Permittee shall maintain a record of solids removal and disposal, including the name of the septage hauler, date of off-site shipment, volume of solids removed, disposal method, and disposal location.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
19.	<p>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.</p> <p>The Permittee shall notify the NMED within 24 hours if at any time the Permittee no longer has a certified operator maintaining the system.</p> <p>[Subsection C of 20.6.2.3109 NMAC, 20.7.4 NMAC]</p>

**B. MONITORING AND REPORTING**

#	Terms and Conditions
20.	<p>The Permittee shall conduct the monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
21.	<p>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.</p>

#	Terms and Conditions
	[Subsection B of 20.6.2.3107 NMAC]

**Due Dates for Monitoring Reports**

#	Terms and Conditions
22.	<p>Semi-annual monitoring - The Permittee shall perform monitoring and other Permit-required actions during the following periods and shall submit semi-annual reports to NMED by the following due dates:</p> <ul style="list-style-type: none"> <li>• January 1<sup>st</sup> through June 30<sup>th</sup> – <b>due by August 1<sup>st</sup></b>; and</li> <li>• July 1<sup>st</sup> through December 31<sup>st</sup> – <b>due by February 1<sup>st</sup></b>.</li> </ul> <p>[Subsection A of 20.6.2.3107 NMAC]</p>

**Monitoring Actions with Implementation Deadlines**

#	Terms and Conditions
23.	<p>Within 120 days of the issuance date of this Discharge Permit (<b>by DATE</b>), the Permittee shall install the following new monitoring wells.</p> <ol style="list-style-type: none"> <li>a) One monitoring well, (MW-1A), a replacement for MW-1, which is to be abandoned, intended to be located 20 to 50 feet hydrologically downgradient of the reuse storage impoundment or 20 to 50 feet from MW-1 (32.88556, -104.43150).</li> <li>b) One monitoring well, (MW-2), intended to be located hydrologically upgradient of the reuse storage impoundment, reuse areas, and the Employee Residence septic tank/leachfield system (32.856886, -104.436239).</li> <li>c) One monitoring well, (MW-3), located at an alternate location from MW-1A and hydrologically downgradient of the reuse storage impoundment and reuse areas (32.849997, -104.430847).</li> </ol> <p>The Permittee shall complete the wells in accordance with the attached Monitoring Well Guidance.</p> <p>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.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>

#	Terms and Conditions
24.	<p>Within 150 days following the issuance date of this Discharge Permit (<b>by DATE</b>), the Permittee shall perform a professional 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 one-hundredth of a foot or shall be in accordance with the “Minimum Standards for Surveying in New Mexico” (12.8.2 NMAC). 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).</p> <p>The Permittee shall utilize the survey to establish an elevation at the top-of-casing, with a permanent marking indicating the point of elevation.</p> <p>The Permittee shall measure the depth-to-most-shallow groundwater to the nearest one-hundredth of a foot in all surveyed wells and referenced to mean sea level, and the data shall be used to develop a groundwater elevation contour, i.e., potentiometric surface, map showing the location of all monitoring wells and the direction and gradient of groundwater flow in the uppermost aquifer below the Facility. The Permittee shall submit the data and groundwater elevation contour map to NMED within 30 days of survey completion.</p> <p>[Subsection A of 20.6.2.3107 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]</p>

**Groundwater Monitoring Conditions**

#	Terms and Conditions
25.	<p>Once installed, the Permittee shall perform semi-annual groundwater sampling in the following groundwater monitoring wells and analyze the samples for TKN, NO<sub>3</sub>-N, TDS, and Cl.</p> <ul style="list-style-type: none"> <li>a) MW-1A, intended to be located 20 to 50 feet hydrologically downgradient of the reuse storage impoundment (32.88556, -104.43150).</li> <li>b) MW-2, intended to be located hydrologically upgradient of the reuse storage impoundment, reuse areas, and the employee residence septic tank leachfield system (32.856886, -104.436239).</li> <li>c) MW-3, intended to be located hydrologically downgradient of the reuse storage impoundment, reuse areas, and leachfields (.849997, -104.430847).</li> </ul> <p>The Permittee shall perform groundwater sample collection, preservation, transport, and analysis according to the following procedures.</p>

#	Terms and Conditions
	<p>a) Measure the depth-to-most-shallow groundwater from the top of the well casing to the nearest one-hundredth of a foot.</p> <p>b) Purge three well volumes of water from the well prior to sample collection.</p> <p>c) Obtain samples from the well for analysis.</p> <p>d) Properly prepare, preserve, and transport samples.</p> <p>e) Analyze samples in accordance with the methods authorized in this Discharge Permit.</p> <p>The Permittee shall submit the depth-to-most-shallow groundwater measurements and the laboratory analytical data results, including the laboratory QA/QC summary report and Chain of Custody for each well, and a Facility layout map showing the location and number of each well to NMED in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
26.	<p>The Permittee shall develop a groundwater elevation contour map, i.e., potentiometric surface map, on a semi-annual basis using the top of casing elevation data from the monitoring well survey and the most recent depth-to-most-shallow groundwater measurements, referenced to mean sea level, obtained during the groundwater sampling required by this Discharge Permit.</p> <p>The groundwater elevation contour map shall depict the groundwater flow direction based on the groundwater elevation contours. The Permittee shall estimate groundwater elevations between monitoring well locations using common interpolation methods. The Permittee shall use a contour interval appropriate to the data but shall not be greater than two feet. Groundwater elevation contour maps shall use arrows to depict the groundwater flow direction based on the orientation of the groundwater elevation contours and shall locate and identify each monitoring well and contaminant source.</p> <p>The Permittee shall submit to NMED a groundwater elevation contour map in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
27.	<p>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 notify the Permittee. 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.</p>

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	<p>Should the Permittee decide to install a pump in a monitoring well without a dedicated pump, the Permittee shall notify NMED at least 90 days prior to pump installation so that NMED can schedule a downhole well inspections prior to pump placement.</p> <p>[Subsections A and D of 20.6.2.3107 NMAC]</p>

**Facility Monitoring Conditions**

#	Terms and Conditions
28.	<p>The City of Artesia WWTP measures the monthly volume of reclaimed domestic wastewater provided to the Artesia Country Club. The Permittee shall, on a monthly basis, obtain a copy of the readings from the totalizing flow meter located on the reuse line to the clay-lined storage impoundment and calculate the monthly and average daily discharge volume.</p> <p>The Permittee shall submit the monthly meter readings and calculated monthly and average daily discharge volumes to NMED in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
29.	<p>The Permittee shall, on a monthly basis, estimate the volume of wastewater received by the Course Restroom septic tank leachfield and the Employee Residence septic tank leachfield by recording meter readings for the Facility’s water supply on a monthly basis and calculating the monthly and average daily usage volumes.</p> <p>To determine the discharge volume, the Permittee shall use the estimated monthly influent volume* (based upon meter readings) to calculate the average daily volume by the formula below.</p> $\text{estimated monthly volume} \div \text{number of days in the month} = \text{average daily volume}$ <p>Each month, the Permittee shall make note of any significant uses of the water (e.g., irrigation, evaporative cooling, or leaks) that do not contribute to the volume of wastewater received.</p> <p>The Permittee shall submit the monthly meter readings, estimated monthly and average daily influent volumes, notes, and estimated volume of significant uses for each calendar month to NMED in the semi-annual monitoring reports.</p>

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	<p>*Should more than one flow meter exist for the Facility’s water supply, the Permittee shall calculate the estimated monthly volume for the Facility by adding the estimated monthly volume for each meter. This summation should be completed prior to calculating the average daily volume for the Facility.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
30.	<p>The Permittee shall on a monthly basis measure the volume of reclaimed domestic wastewater mixed with irrigation well water discharged from the reuse storage impoundment to the reuse area during the period.</p> <p>To determine the discharge volume, the Permittee shall obtain readings from a totalizing flow meter located on the discharge line between the reuse storage impoundment and the sprinkler irrigation system on a monthly basis and calculate the monthly and average daily discharge volume.</p> <p>The Permittee shall submit the monthly meter readings calendar, calculated monthly discharge volumes, and average daily discharge volumes to NMED in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
31.	<p>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, at a minimum, on an annual basis. The Permittee shall also perform field calibrations upon repair or replacement of a flow measurement device.</p> <p>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.</p> <ol style="list-style-type: none"> <li>a) The location and meter identification.</li> <li>b) The method of flow meter field calibration employed.</li> <li>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.</li> <li>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.</li> </ol>

#	Terms and Conditions
	<p>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.</p> <p>The Permittee shall maintain records of flow meter calibration(s) at a location accessible for review by NMED during Facility inspections.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>
32.	<p>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.</p> <p>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 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.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
33.	<p>The Permittee shall collect samples of reclaimed domestic wastewater mixed with irrigation well water from the reuse storage impoundment on a semi-annual basis and analyze the samples for:</p> <ul style="list-style-type: none"> <li>• TKN;</li> <li>• NO<sub>3</sub>-N;</li> <li>• TDS; and</li> <li>• Cl.</li> </ul> <p>The Permittee shall ensure the sample is 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 semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p>

#	Terms and Conditions
34.	<p>The Permittee shall keep a Fertilizer Log (copy enclosed) of all additional nitrogenous fertilizer applied to each field within the reuse area. The Log shall contain the date of fertilizer application, the type (organic or inorganic) and form (granular or liquid), nitrogen concentration (in percent), the amount of fertilizer applied (in pounds per acre), and the amount of nitrogen applied (in pounds per acre) for each location. The Permittee shall submit the log, or a statement that the application of fertilizer did not occur, to NMED in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
35.	<p>The Permittee shall submit all records of solids removal and disposal to NMED in the monitoring report due by August 1<sup>st</sup> each year.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>

**C. CONTINGENCY PLAN**

#	Terms and Conditions
36.	<p>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.</p> <p>Within 60 days of confirmation of groundwater contamination, 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.</p> <p>This condition shall apply until the Permittee completes groundwater monitoring for a minimum of eight (8) consecutive quarterly samples demonstrating groundwater does not exceed the standards of Section 20.6.2.3103 NMAC.</p> <p>Violation of the groundwater standard beyond 180 days after the confirmation of groundwater contamination may cause NMED to 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.</p> <p>[20.6.2.3103 NMAC, Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]</p>

#	Terms and Conditions
37.	<p>In the event that information available to NMED indicates that a well is not constructed in a manner consistent with the attached 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.</p> <p>The Permittee shall survey the replacement monitoring well(s) within 30 days following well completion.</p> <p>The Permittee shall install replacement well(s) at locations approved by NMED prior to installation and shall complete replacement well(s) in accordance with the attached Monitoring Well Guidance. The Permittee shall submit well construction and lithologic logs, survey data, and a groundwater elevation contour map to NMED within 60 days following well completion.</p> <p>The Permittee shall properly plug and abandon monitoring well(s) requiring replacement upon completion of the replacement monitoring well(s). The Permittee shall complete the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well(s) completion.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
38.	<p>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 survey the replacement monitoring well within 30 days following well completion.</p> <p>The Permittee shall install the replacement well at the location approved by NMED prior to installation and shall complete the replacement well in accordance with the attached Monitoring Well Guidance. The Permittee shall submit construction and lithologic logs, survey data and a groundwater elevation contour map within 60 days following well completion.</p> <p>The Permittee shall properly plug and abandon a 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 attached Monitoring Well Guidance and all applicable local, state,</p>

#	Terms and Conditions
	<p>and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well completion.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
39.	<p>In the event that analytical results of a reclaimed domestic wastewater mixed with irrigation well water 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.</p> <ul style="list-style-type: none"><li>a) Within 7 days of the second sample analysis date indicating exceedance of the discharge limit, the Permittee shall:<ul style="list-style-type: none"><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><li>b) The Permittee shall increase the frequency of total nitrogen wastewater sampling and analysis of treated wastewater to quarterly.</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 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><li>e) In the event that any analytical results from quarterly 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 continues to exceed the limit. The Permittee shall initiate implementation of the CAP following approval by NMED.</li></ul> <p>When analytical results from two consecutive quarters of wastewater sampling do not exceed the discharge limit, the Permittee may request that NMED authorize a return to a semi-annual monitoring frequency.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>

#	Terms and Conditions
40.	<p>In the event that an inspection performed by the Permittee of an impoundment reveals significant damage has occurred or is likely to affect the structural integrity of an impoundment or its ability to contain contaminants, the Permittee shall propose the repair or replacement of the impoundment by submitting a CAP to NMED for approval. The Permittee shall submit the CAP to NMED within 30 days after discovery of the damage or following notification from NMED that significant damage is evident. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall initiate implementation of the Plan following approval by NMED.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
41.	<p>In the event that an impoundment cannot preserve a minimum of two feet of freeboard, the Permittee shall take actions to restore the required freeboard as authorized by this Discharge Permit and all applicable local, state, and federal regulations.</p> <p>In the event that two feet of freeboard cannot be restored within a period of 72 hours following discovery, the Permittee shall propose actions to restore two feet of freeboard by submitting a short-term CAP to NMED for approval. Examples of short-term corrective actions include the pumping and hauling of excess wastewater from the impoundment or reducing the volume of wastewater discharged to the impoundment. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall submit the CAP within 15 days following the date the Permittee or the NMED discover the exceedance. The Permittee shall implement the CAP following NMED approval.</p> <p>In the event that the short-term corrective actions fail to restore two feet of freeboard, the Permittee shall submit to NMED a proposal for permanent corrective actions in a long-term CAP. The Permittee shall submit the long-term CAP within 90 days following failure of the short-term CAP. Examples of corrective actions include the installation of an additional storage impoundment or a significant and permanent reduction in the volume of wastewater discharged to the impoundment. The Permittee shall ensure the long-term CAP includes a schedule for completion of corrective actions. The Permittee shall implement the CAP following NMED approval.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
42.	<p>In the event that the Permittee identifies failure of the Course Restroom leachfield and/or the Employee Residence leachfield, such as surfacing wastewater, the Permittee shall implement the following Contingency Plan.</p> <ul style="list-style-type: none"><li>a) Within 24 hours following the discovered failure, the Permittee shall:<ul style="list-style-type: none"><li>i) Notify NMED of the failure in accordance with the notification requirements</li></ul></li></ul>

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	<p>described in the Contingency Plan for unauthorized discharges; and</p> <ul style="list-style-type: none"><li>ii) Restrict public access to the area.</li></ul> <ul style="list-style-type: none"><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><li>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.</li></ul> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p>
43.	<p>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. A release is defined as such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property.</p> <p>Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information.</p> <ul style="list-style-type: none"><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, including its estimated chemical composition.</li><li>f) The estimated volume of the unauthorized discharge.</li><li>g) Any actions taken to mitigate immediate damage from the unauthorized discharge.</li></ul> <p>Within <u>one week</u> following discovery of the unauthorized discharge, the Permittee shall submit written notification to NMED providing the information listed above and any pertinent updates.</p> <p>Within <u>15 days</u> following discovery of the unauthorized discharge, the Permittee shall submit a 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.</p>

#	Terms and Conditions
	<p>a) A description of proposed actions to mitigate damage from the unauthorized discharge.</p> <p>b) A description of proposed actions to prevent future unauthorized discharges of this nature.</p> <p>c) A schedule for completion of proposed actions.</p> <p>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.</p> <p>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.</p> <p>[20.6.2.1203 NMAC]</p>
44.	<p>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.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]</p>

**D. CLOSURE PLAN**

***Closure Actions with Implementation Deadlines***

#	Terms and Conditions
45.	<p>Within 120 days following the issuance date of this Discharge Permit (<b>by DATE</b>), the Permittee shall properly plug and abandon the following monitoring well.</p> <p>a) MW-1, located downgradient of the reuse storage impoundment.</p> <p>The Permittee shall abandon monitoring wells in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations, including 19.27.4 NMAC.</p>

#	Terms and Conditions
	<p>The Permittee shall submit documentation describing the well abandonment procedures in accordance with the above-mentioned Guidelines. The Permittee shall submit the well abandonment documentation to NMED within 60 days of completion of well plugging activities.</p> <p>[Subsection A of 20.6.2.3107 NMAC, 19.27.4 NMAC]</p>

**Permanent Facility Closure Conditions**

#	Terms and Conditions
46.	<p>The Permittee shall perform the following closure measures in the event the Facility, or a component thereof, is proposed to be permanently closed.</p> <p>Within <u>60 days</u> of ceasing to discharge to the impoundments, the Permittee shall plug the impoundment influent lines so that a discharge can no longer occur.</p> <p>Within <u>60 days</u> of ceasing to discharge to the impoundments, the Permittee shall discharge wastewater from the impoundment component to the reuse area. The Permittee shall not discharge accumulated solids (sludge) from the impoundment to the reuse area.</p> <p>Within <u>90 days</u> of ceasing to discharge to the impoundments, the Permittee shall submit a sludge removal and disposal plan to NMED for approval. The Permittee shall implement the plan within 30 days following approval by NMED. The sludge removal and disposal plan shall include the following information.</p> <ol style="list-style-type: none"> <li>a) The estimated volume and dry weight of sludge planned for removal and disposal, including measurements and calculations.</li> <li>b) Analytical results for samples of the sludge taken from the impoundment for TKN, NO<sub>3</sub>-N, percent total solids, and any other parameters tested (reported in mg/kg, dry weight basis).</li> <li>c) The method of sludge <i>removal</i> from the impoundments.</li> <li>d) The method of <i>disposal</i> for all the sludge (and its contents) removed from the impoundments. The method shall comply with all local, state and federal regulations, including 40 CFR Part 503. <i>Note: A proposal that includes the surface disposal of sludge may be subject to Groundwater Discharge Permitting requirements pursuant to 20.6.2.3104 NMAC that are separate from the requirements of this Discharge Permit.</i></li> <li>e) A schedule for completion of sludge removal and disposal not to exceed two years from the date discharge to the impoundments ceased.</li> </ol>

#	Terms and Conditions
	<p>Within <u>one year</u> following completion of the sludge removal and disposal, the Permittee shall complete the following closure measures.</p> <ul style="list-style-type: none"><li>a) Remove all lines leading to and from the impoundments, or permanently plug and abandon the lines in place.</li><li>b) Remove or demolish any other wastewater system components and re-grade area with suitable fill to blend with surface topography, promote positive drainage and prevent ponding.</li><li>c) Characterize, remove, and dispose of all solids from the impoundments in accordance with local, state, and federal regulations, and maintain a record of solids transported for off-site disposal, including the volume of solids transported and the disposal location.</li><li>d) Remove and dispose of the impoundment liners at a solid waste facility. If there is evidence of contaminated soil below the liners, assess the impact, report that assessment to NMED, and mitigate the impacts following NMED approval.</li><li>e) Fill the impoundments with suitable fill.</li><li>f) Re-grade the impoundment site and the locations of ancillary equipment, e.g., influent piping, to blend with surface topography, promote positive drainage and prevent ponding.</li></ul> <p>The Permittee shall continue groundwater monitoring until the Permittee meets the requirements of this condition met and groundwater monitoring confirms for a minimum of eight consecutive quarterly groundwater sampling events that groundwater does not exceed the standards of Section 20.6.2.3103 NMAC. This period is referred to as “post-closure.”</p> <p>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.</p> <p>Following notification from NMED that the Permittee may cease post-closure monitoring, the Permittee shall plug and abandon the monitoring well(s) in accordance with the attached Monitoring Well Guidance.</p> <p>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.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]</p>

#	Terms and Conditions
47.	<p>The Permittee shall perform the following closure measures in the event the Course Restroom and/or the Employee Residence septic tank leachfield systems, or a component of the systems, is proposed to be permanently closed upon ceasing discharge.</p> <p>Within <u>90 days</u> of ceasing discharge to the septic tank leachfield system(s) (or closed system components), the Permittee shall complete the following closure measures:</p> <ul style="list-style-type: none"><li>a) Plug all lines leading to and from the closed system(s) so that a discharge can no longer occur.</li><li>b) Wastewater, septage, and grease interceptor waste shall be pumped from the system components (e.g., septic tanks, grease trap/interceptors, lift stations, dosing chambers, distribution boxes) and it shall be contained, transported, and disposed of in accordance with all local, state, and federal regulations, including 40 CFR Part 503. The Permittee shall maintain a record of all wastes transported for off-site disposal.</li></ul> <p>Within <u>180 days</u> of ceasing discharge to the septic tank leachfield system(s) (or closed system components), the Permittee shall complete the following closure measures:</p> <ul style="list-style-type: none"><li>a) Remove all lines leading to and from the closed system(s) or permanently plug them and abandon them in place.</li><li>b) Remove or demolish all closed septic tanks, grease trap/interceptors, lift stations, dosing chambers, distribution boxes or other system(s) components (with the exception of leachfields) and re-grade the area with suitable fill to blend with surface topography to promote positive drainage and prevent ponding.</li></ul> <p>The Permittee shall continue groundwater monitoring until the Permittee meets the requirements of this condition and groundwater monitoring confirms for a minimum of eight consecutive quarterly groundwater sampling events that groundwater does not exceed the standards of Section 20.6.2.3103 NMAC. This period is referred to as “post-closure.”</p> <p>If at any time monitoring results show an exceedance of a groundwater quality standard in Section 20.6.2.3103 NMAC or the total nitrogen concentration is greater than 10 mg/L in groundwater, the Permittee shall implement the Contingency Plan required by this Discharge Permit.</p> <p>Following notification from NMED that the Permittee may cease post-closure monitoring, the Permittee shall plug and abandon the monitoring well(s) in accordance with the attached Monitoring Well Guidance.</p>

#	Terms and Conditions
	<p>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.</p> <p>[Subsection A of 20.6.2.3107 NMAC, 40 CFR Part 503</p>

**E. GENERAL TERMS AND CONDITIONS**

#	Terms and Conditions
48.	<p>RECORD KEEPING - The Permittee shall maintain a written record of the following:</p> <ul style="list-style-type: none"> <li>• Information and data used to complete the application for this Discharge Permit;</li> <li>• Information, data, and documents demonstrating completion of closure activities;</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> <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 style="list-style-type: none"> <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> </ul> </li> </ul>

#	Terms and Conditions
	<ul style="list-style-type: none"> <li>○ the analytical technique or method used to analyze each sample or collect each field measurement;</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> <p>The Permittee shall maintain the written record at a location accessible to NMED during a Facility inspection for a minimum of five years. The Permittee shall make the record available to NMED upon request.</p> <p>[Subsections A and D of 20.6.2.3107 NMAC]</p>
49.	<p>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.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p>
50.	<p>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.</p> <p>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.</p> <p>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.</p> <p>[Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]</p>
51.	<p>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.</p>

#	Terms and Conditions
	[Subsection D of 20.6.2.3107 NMAC]
52.	<p>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.</p> <p>[Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]</p>
53.	<p>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.</p> <p>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.</p> <p>[Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]</p>
54.	<p>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, 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.</p> <p>[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]</p>

#	Terms and Conditions
55.	<p>CRIMINAL PENALTIES – No person shall:</p> <ul style="list-style-type: none"> <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> <p>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 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.</p> <p>[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F]</p>
56.	<p>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.</p> <p>[NMSA 1978, § 74-6-5.L]</p>
57.	<p>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.</p> <p>[20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.O]</p>
58.	<p>TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall:</p>

#	Terms and Conditions
	<ul style="list-style-type: none"><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> <p>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.</p> <p>[20.6.2.3111 NMAC]</p>
59.	<p>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.</p> <p>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.</p> <p>[Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]</p>



## New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

### Facility Information

**Facility Name** Artesia Country Club  
**Discharge Permit Number** DP-375  
**Legally Responsible Party** Nathan Bowser, Superintendent  
 Artesia Country Club  
 P.O. Box 1305  
 Artesia, NM 88210  
 (575) 937-6046

### Treatment, Disposal, and Site Information

**Primary Waste Type** Domestic Wastewater and Reuse End User  
**Facility Type** Golf Course

#### Treatment Methods

Type	Designation	Description & Comments
Septic Tank	Course Restroom Septic Tank	1,000-gallon concrete tank.
Septic Tank	Employee Residence Septic Tank	1,000-gallon concrete tank

#### Discharge Locations

Type	Designation	Description & Comments
Impoundment	Reuse Storage Impoundment	1-million-gallon clay-lined storage impoundment containing Class 1B domestic wastewater mixed with irrigation well water.
Impoundment	Hole #1 Fountain	Clay-lined ornamental impoundment containing Class 1B domestic wastewater mixed with irrigation well water.
Impoundment	Hole #6 Pond	Clay-lined ornamental impoundment containing Class 1B domestic wastewater mixed with irrigation well water.
Re-use Area	Golf Course	80-acre golf course
Leachfield	Course Restroom Leachfield	100-foot conventional leach line connected to the Course Restroom Septic Tank
Leachfield	Employee Residence Leachfield	100-foot conventional leach line connected to the Employee Residence Septic Tank

#### Flow Metering Locations

Type	Designation	Description & Comments
Totalizing Flow Meter	Golf Course Reuse Meter	Located on the City of Artesia WWTP reuse line to the Reuse Storage Impoundment.
Totalizing Flow Meter	Water Supply Meter	Located on the City of Artesia's potable water supply line to the Facility.
Totalizing Flow Meter	Irrigation System Meter	Located on the golf course irrigation system. Measures the discharge of mixed irrigation well water reclaimed domestic wastewater to the golf



**New Mexico Environment Department Ground Water Quality Bureau  
Discharge Permit Summary**

Type	Designation	Description & Comments
		course reuse area and ornamental storage impoundments from the Reuse Storage Impoundment.

**Ground Water Monitoring Locations**

Type	Designation	Description & Comments
Monitoring Well	MW-1	Located southeast of the Reuse Storage Impoundment. Required to be plugged and abandoned during the term of this Discharge Permit (32.854778, -104.437361).
Monitoring Well	MW-1A	Replacement well for MW-1. Intended to be located 20 to 50 feet hydrologically downgradient of the Reuse Storage Impoundment (32.88556, -104.43150).
Monitoring Well	MW-2	Intended to be located hydrologically upgradient of the Reuse Storage Impoundment, reuse areas, and the Employee Residence septic tank leachfield system (32.856886, -104.436239).
Monitoring Well	MW-3	Intended to be located hydrologically downgradient of the Reuse Storage Impoundment, reuse areas, and septic tank leachfield systems (32.849997, -104.430847).

**Depth-to-Ground Water** 165 feet  
**Total Dissolved Solids (TDS)** 400 mg/L

**Permit Information**

<b>Original Permit Issued</b>	May 13, 1985
<b>Permit Renewal</b>	February 19, 1992
<b>Permit Renewal</b>	May 5, 1997
<b>Permit Renewal</b>	March 21, 2005
<b>Permit Renewal</b>	July 12, 2010
<b>Permit Renewal</b>	August 12, 2019

<b>Current Action</b>	<b>Renewal</b>
Application Received	May 8, 2024
Public Notice Published	[not yet published]
Permit Issued (Issuance Date)	[issuance date]
Permitted Discharge Volume	184,800 gallons per day

**NMED Contact Information**

<b>Mailing Address</b>	Ground Water Quality Bureau P.O. Box 5469 Santa Fe, New Mexico 87502-5469
<b>GWQB Telephone Number</b>	(505) 827-2900



## New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

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**NMED Lead Staff**  
**Lead Staff Telephone Number**  
**Lead Staff Email**

Kambray Townsend  
(505) 538-0497  
[kambray.townsend@env.nm.gov](mailto:kambray.townsend@env.nm.gov) or [pps.general@env.nm.gov](mailto:pps.general@env.nm.gov)

draft



## New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Renewal

### Summary of Permit Conditions Requiring an Action

#### Artesia Country Club, DP-375

Effective Date: DATE

#### A. ONE-TIME REQUIRED ACTIONS

#	Description of Required Action	Due Date
3.	Install a locking mechanism for the reuse inlet valve enclosure at the Facility.	Within 90 days following the effective date of this Discharge Permit ( <b>by DATE</b> )
4.	Post signs in English and Spanish at the Reuse Storage Impoundment, Hole #1 Fountain, and Hole #6 Pond, and all re-use areas.	Within 30 days following the effective date of this Discharge Permit ( <b>by DATE</b> )
5.	Mechanically remove vegetation growing around and within the reuse storage impoundment in a manner that is protective of the impoundment.	Within 90 days following the effective date of this Discharge Permit ( <b>by DATE</b> )
6.	Conduct an inspection and test for water-tight construction on the Course Restroom septic tank and the Employee Residence septic tank.	Within 60 days following the effective date of this Discharge Permit ( <b>by DATE</b> )
7.	Submit a sludge removal and disposal plan for the sludge stored to the south of the reuse storage impoundment to NMED for approval.	Within 90 days following the effective date of this Discharge Permit ( <b>by DATE</b> )
8.	Have the integrity of the Employee Residence leachfield evaluated for any condition that could indicate damage to or potential failure of the disposal system, and submit the results to NMED.	Within 90 days following the effective date of this Discharge Permit ( <b>by DATE</b> )
9.	Install new monitoring wells.	Within 120 days of the effective date of this Discharge Permit ( <b>by DATE</b> )
10.	Survey all wells approved by NMED for Discharge Permit monitoring purposes to a U.S. Geological Survey (USGS) or other permanent benchmark.	Within 150 days following the effective date of this Discharge Permit ( <b>by DATE</b> )
11.	Properly plug and abandon MW-1.	Within 120 days following the effective date of this Discharge Permit ( <b>by DATE</b> ).

## Summary of Permit Conditions Requiring an Action

### B. RECURRING REQUIRED ACTIONS

#	Description of Required Action	Frequency	Reporting Due Dates
1.	Visually inspect the area above the Employee Residence leachfield and the Course Restroom leachfield (disposal system) to ensure proper maintenance.	semiannual	
2.	Inspect the Course Restroom and Employee Residence septic tanks for the accumulation of scum and solids.	semiannual	
5.	Conduct groundwater sampling in the following monitoring wells, MW-1A, MW-2, and MW-3, and analyze the samples for TKN, NO3-N, TDS, and Cl.  _____	Semiannual	February 1 <sup>st</sup> and August 1 <sup>st</sup>
	Depth-to-most-shallow groundwater measurements, analytical results, including the laboratory QA/QC summary report, and a facility layout map showing the location and number of each well.		_____
6.	Develop a groundwater elevation contour map.  _____	Semiannual	Semiannual
	Depth-to-most-shallow groundwater measurements, referenced to mean sea level, obtained from the groundwater monitoring wells.		_____
7.	Obtain a copy of the readings from the totalizing flow meter to the reuse storage impoundment from the City of Artesia and calculate the monthly and average daily discharge volume to the reuse storage impoundment.	Monthly	February 1 <sup>st</sup> and August 1 <sup>st</sup>
8.	Estimate the volume of wastewater received by the Course Restroom septic tank/leachfield system and the Employee Residence septic tank/leachfield system. Submit the monthly meter readings, estimated monthly and average daily volumes, notes, and estimated volume of significant uses.	Monthly	February 1 <sup>st</sup> and August 1 <sup>st</sup>
9.	Submit the monthly meter readings and calculated monthly and average daily discharge volumes to the sprinkler irrigation system.	Monthly	February 1 <sup>st</sup> and August 1 <sup>st</sup>
10.	Verify flow meters for their accuracy under actual working (field) conditions.	Upon repair or replacement of a flow measurement device	On an annual basis
11.	Visually inspect flow meters for evidence of malfunction.	Monthly	
12.	Collect samples of reclaimed domestic wastewater mixed with irrigation well water from the reuse storage	Semiannual	February 1 <sup>st</sup> and August 1 <sup>st</sup>

## Summary of Permit Conditions Requiring an Action

#	Description of Required Action	Frequency	Reporting Due Dates
	impoundment, and analyze the samples for TKN, NO3-N, TDS, and Cl.		
13.	Collect samples of wastewater from the final septic tank of the Course Restroom and the Employee Restroom septic tank leachfield systems.	Semiannual	February 1 <sup>st</sup> and August 1 <sup>st</sup>
25.	Keep a log of all additional nitrogenous fertilizers applied to each field within the reuse area or provide a statement indicating that no fertilizer application occurred.		February 1 <sup>st</sup> and August 1 <sup>st</sup>
26.	Submit all records of solids removal and disposal.		Monitoring report due by August 1 <sup>st</sup> each year

**NOTE:** This document is intended as a reminder only. See Discharge Permit for full requirement details.

**Submit reports to:**

NMED Ground Water Quality Bureau  
P.O. Box 5469  
Santa Fe, New Mexico 87502-5469

**NEW MEXICO ENVIRONMENT DEPARTMENT  
GROUND WATER QUALITY BUREAU  
MONITORING WELL CONSTRUCTION AND ABANDONMENT GUIDELINES**

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**Purpose:** These guidelines identify minimum construction and abandonment details for installation of water table monitoring wells under groundwater Discharge Permits issued by the NMED's Ground Water Quality Bureau (GWQB) and Abatement Plans approved by the GWQB. Proposed locations of monitoring wells required under Discharge Permits and Abatement Plans and requests to use alternate installation and/or construction methods for water table monitoring wells or other types of monitoring wells (e.g., deep monitoring wells for delineation of vertical extent of contaminants) must be submitted to the GWQB for approval prior to drilling and construction.

**General Drilling Specifications:**

1. All well drilling activities must be performed by an individual with a current and valid well driller license issued by the State of New Mexico in accordance with 19.27.4 NMAC. Use of drillers with environmental well drilling experience and expertise is highly recommended.
2. Drilling methods that allow for accurate determinations of water table locations must be employed. All drill bits, drill rods, and down-hole tools must be thoroughly cleaned immediately prior to the start of drilling. The borehole diameter must be drilled a minimum of 4 inches larger than the casing diameter to allow for the emplacement of sand and sealant.
3. After completion, the well should be allowed to stabilize for a minimum of 12 hours before development is initiated.
4. The well must be developed so that formation water flows freely through the screen and is not turbid, and all sediment and drilling disturbances are removed from the well.

**Well Specifications (see attached monitoring well schematic):**

5. Schedule 40 (or heavier) polyvinyl chloride (PVC) pipe, stainless steel pipe, carbon steel pipe, or pipe of an alternate appropriate material that has been approved for use by NMED must be used as casing. The casing must have an inside diameter not less than 2 inches. The casing material selected for use must be compatible with the anticipated chemistry of the groundwater and appropriate for the contaminants of interest at the facility. The casing material and thickness selected for use must have sufficient collapse strength to withstand the pressure exerted by grouts used as annular seals and thermal properties sufficient to withstand the heat generated by the hydration of cement-based grouts. Casing sections may be joined using welded, threaded, or mechanically locking joints; the method selected must provide sufficient joint strength for the specific well installation. The casing must extend from the top of the screen to at least one foot above ground surface. The top of the casing must be fitted with a removable cap, and the exposed casing must be protected by a locking steel well shroud. The shroud must be large enough in diameter to allow easy access for removal of the cap. Alternatively, monitoring wells may be completed below grade. In this case, the casing must extend from the top of the screen to 6 to 12 inches below the ground surface; the monitoring wells must be sealed with locking, expandable well plugs; a flush-mount, watertight well vault that is rated to withstand traffic loads must be emplaced around the wellhead; and the cover must be secured with at least one bolt. The vault cover must indicate that the wellhead of a monitoring well is contained within the vault.
6. A 20-foot section (maximum) of continuous-slot, machine slotted, or other manufactured PVC or stainless steel well screen or well screen of an alternate appropriate material that has been approved for use by NMED must be installed across the water table. Screens created by cutting slots into solid casing with saws or other tools must not be used. The screen material selected for use must be compatible with the anticipated chemistry of the ground water and appropriate for the contaminants of interest at the facility. Screen sections may be joined using welded, threaded, or mechanically

- locking joints; the method selected must provide sufficient joint strength for the specific well installation and must not introduce constituents that may reasonably be considered contaminants of interest at the facility. A cap must be attached to the bottom of the well screen; sumps (i.e., casing attached to the bottom of a well screen) should not be installed. The bottom of the screen must be installed no more than 15 feet below the water table; the top of the well screen must be positioned not less than 5 feet above the water table. The well screen slots must be appropriately sized for the formation materials and should be selected to retain 90 percent of the filter pack. A slot size of 0.010 inches is generally adequate for most installations.
7. Casing and well screen must be centered in the borehole by placing centralizers near the top and bottom of the well screen.
  8. A filter pack must be installed around the screen by filling the annular space from the bottom of the screen to 2 feet above the top of the screen with clean silica sand. The filter pack must be properly sized to prevent fine particles in the formation from entering the well; clean medium to coarse silica sand is generally adequate as filter pack material for 0.010-inch slotted well screen. For wells deeper than 30 feet, the sand must be emplaced by a tremmie pipe. The well should be surged or bailed to settle the filter pack and additional sand added, if necessary, before the bentonite seal is emplaced.
  9. A bentonite seal must be constructed immediately above the filter pack by emplacing bentonite chips or pellets (3/8-inch in size or smaller) in a manner that prevents bridging of the chips/pellets in the annular space. The bentonite seal must be 3 feet in thickness and hydrated with clean water. Adequate time should be allowed for expansion of the bentonite seal before installation of the annular space seal.
  10. The annular space above the bentonite seal must be sealed with cement grout or a bentonite-based sealing material acceptable to the State Engineer pursuant to 19.27.4 NMAC. A tremmie pipe must be used when placing sealing materials at depths greater than 20 feet below the ground surface. Annular space seals must extend from the top of the bentonite seal to the ground surface (for wells completed above grade) or to a level 3 to 6 inches below the top of casing (for wells completed below grade).
  11. For monitoring wells finished above grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the shroud and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the wellhead. The installation of steel posts around the well shroud and wellhead is recommended for monitoring wells finished above grade to protect the wellhead from damage by vehicles or equipment. For monitoring wells finished below grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the well vault and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the well vault.

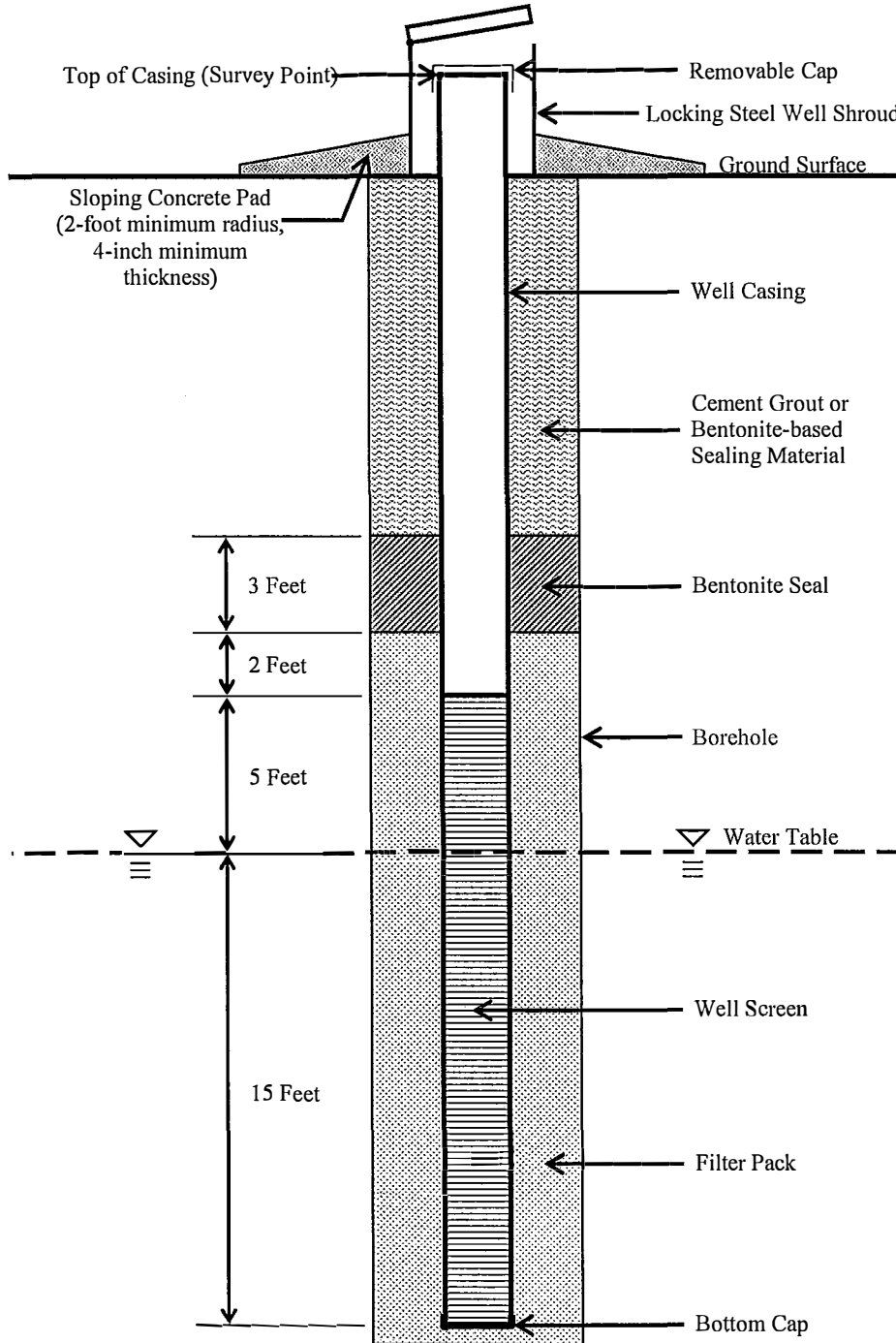
**Abandonment:**

12. Approval for abandonment of monitoring wells used for ground water monitoring in accordance with Discharge Permit and Abatement Plan requirements must be obtained from NMED prior to abandonment.
13. Well abandonment must be accomplished by removing the well casing and placing neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer for wells that encounter water pursuant to 19.27.4 NMAC from the bottom of the borehole to the ground surface using a tremmie pipe. If the casing cannot be removed, neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer must be placed in the well using a tremmie pipe from the bottom of the well to the ground surface.
14. After abandonment, written notification describing the well abandonment must be submitted to the NMED. Written notification of well abandonment must consist of a copy of the well plugging record submitted to the State Engineer in accordance with 19.27.4 NMAC, or alternate documentation containing the information to be provided in a well plugging record required by the State Engineer as specified in 19.27.4 NMAC.

**Deviation from Monitoring Well Construction and Abandonment Requirements:** Requests to construct water table monitoring wells or other types of monitoring wells for groundwater monitoring under groundwater Discharge Permits or Abatement Plans in a manner that deviates from the specified requirements must be submitted in writing to the GWQB. Each request must state the rationale for the proposed deviation from these requirements and provide detailed evidence supporting the request. The GWQB will approve or deny requests to deviate from these requirements in writing.

**MONITORING WELL SCHEMATIC**

(Not to Scale)



# Fertilizer Log

## New Mexico Environment Department Ground Water Quality Bureau



DATE:

MONITORING REPORT DUE DATE:

FACILITY NAME:

REPORTING PERIOD (i.e., from \_\_\_ to \_\_\_):

DP#:

FIELD:<sup>1</sup>

# ACRES IN FIELD:

DAY, MONTH & YEAR OF APPLICATION <sup>2</sup>	A TYPE  organic = O inorganic = I	B FORM  granular = G liquid = L	C NITROGEN CONCENTRATION  %	D FERTILIZER: TOTAL AMOUNT APPLIED  lbs	E NITROGEN: TOTAL AMOUNT APPLIED  lbs/acre (C X D) / # acres	NOTES <sup>3</sup>
DD - MM - YY	I	G	10	200	5 (field size 4 acres)	
<b>TOTALS</b>						

<sup>1</sup>One Fertilizer Log form should be used for each field.  
<sup>2</sup>Each form must reflect the *most recent* 12 months of fertilizer application.  
<sup>3</sup>In the event application did not occur, please report "no application" in the NOTES column.