

GROUND WATER DISCHARGE PERMIT RENEWAL
Picacho Hills Utility Company, DP-47

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal (Discharge Permit), DP-47, to Picacho Hills Utility Company (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) Regulations, 20.6.2 NMAC.

NMED's purpose in issuing this Discharge Permit, and in imposing the requirements and conditions specified herein, is to control the discharge of water contaminants from the Picacho Hills Utility Company Wastewater Treatment Facility (facility) into ground and surface water, so as to protect ground and surface water for present and potential future use as domestic and agricultural water supply and other uses and protect public health. In issuing this Discharge Permit, NMED has determined that the requirements of Subsection C of 20.6.2.3109 NMAC have been or will be met.

The activities which produce the discharge, the location of the discharge, and the quantity, quality and flow characteristics of the discharge are briefly described as follows:

Up to 150,000 gallons per day (gpd) of domestic wastewater is received and treated at the Picacho Hill Utility Company (PHUC) wastewater treatment facility (WWTF). Treated wastewater (reclaimed wastewater) is stored in four synthetically lined impoundments and then discharged for the irrigation of approximately 54 acres of fairways and greens at the Picacho Hills Country Club (PHCC) Golf Course.

The discharge contains water contaminants which may be elevated above the standards of Section 20.6.2.3103 NMAC and/or the presence of toxic pollutants as defined in Subsection WW of 20.6.2.7 NMAC. Data collected from an on-site monitoring well(s) documents ground water contamination attributed to one or more sources at this facility. Ground water quality standards for nitrate as nitrogen, total dissolved solids, and chloride have been exceeded according to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC. This Discharge Permit contains requirements, actions and/or contingencies intended to control the source(s) of documented ground water contamination.

The facility is located at the intersection of Fairway Village Drive and Picacho Hills Drive, Fairacres, in Section 17 (projected), Township 23S, Range 01E, Dona Ana County. Ground water most likely to be affected is at a depth of approximately 25 feet and has a total dissolved solids concentration of approximately 1,700 milligrams per liter.

The original Discharge Permit was issued on December 27, 1978 and subsequently renewed and modified on March 16, 1983, modified on May 5, 1986, renewed and modified on April 27, 1988, December 22, 1995, April 19, 2000, and renewed on January 24, 2007. The application consists of the materials submitted by Gilbert Morales on behalf of the permittee dated September 6, 2011 and materials contained in the administrative record prior to issuance of this Discharge Permit. The discharge shall be managed in accordance with all conditions and requirements of this Discharge Permit.

Pursuant to Section 20.6.2.3109 NMAC, NMED reserves the right to require a Discharge Permit Modification in the event NMED determines that the requirements of 20.6.2 NMAC are being or may be violated or the standards of Section 20.6.2.3103 NMAC are being or may be violated. This may include a determination that structural controls and/or management practices approved under this Discharge Permit are not protective of ground water quality, and that more stringent requirements to protect ground water quality may be required by NMED. The permittee may be required to implement abatement of water pollution and remediate ground water quality.

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

The following acronyms and abbreviations may be used in this Discharge Permit:

Abbreviation	Explanation	Abbreviation	Explanation
BOD ₅	biochemical oxygen demand (5-day)	NTU	nephelometric turbidity units
CFR	Code of Federal Regulations	Org	organisms
Cl	chloride	TDS	total dissolved solids
EPA	United States Environmental Protection Agency	TKN	total Kjeldahl nitrogen
gpd	gallons per day	total nitrogen	= TKN + NO ₃ -N
LADS	land application data sheet(s)	TRC	Total Residual Chlorine
mg/L	milligrams per liter	TSS	total suspended solids
mL	milliliters	UPC	Uniform Plumbing Code
NMAC	New Mexico Administrative Code	WQA	New Mexico Water Quality Act
NMED	New Mexico Environment Department	WQCC	Water Quality Control Commission
NMSA	New Mexico Statutes Annotated	WWTF	Wastewater Treatment Facility
NO ₃ -N	nitrate-nitrogen		

II. FINDINGS

In issuing this Discharge Permit, NMED finds:

1. The permittee is discharging effluent or leachate from the facility so that such effluent or leachate may move directly or indirectly into ground water within the meaning of Section 20.6.2.3104 NMAC.
2. The permittee is discharging effluent or leachate from the facility so that such effluent or leachate may move into ground water of the State of New Mexico which 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.
3. The discharge from the facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.

III. AUTHORIZATION TO DISCHARGE

The permittee is authorized to receive and treat up to 150,000 gpd of domestic wastewater at the PHUC WWTF. The WWTF consists of headworks (including bar screen and influent Parshall flume), two aerated flow equalization basins, four activated sludge aeration basins, two parallel rectangular clarifiers, a chlorine contact chamber, and an aerated sludge digester.

Reclaimed wastewater is stored in two synthetically lined impoundments located at the WWTF prior to transfer to two synthetically lined impoundments (in series) at the PHCC golf course. Reclaimed wastewater is received in the synthetically lined impoundment east of fairway 12 and gravity flows into the synthetically lined impoundment west of fairway 12, where the reclaimed wastewater is blended with well water (as needed) and used to irrigate approximately 54 acres of golf course fairways and greens.

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

IV. CONDITIONS

The conditions of this Discharge Permit shall be complied with by the permittee and are enforceable by NMED. The permittee is authorized to discharge 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 1 and 2 NMAC. [NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]
2.	The permittee shall operate in a manner such that standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC are not violated. [20.6.2.3101 NMAC, 20.6.2.3103 NMAC, Subsections B and C of 20.6.2.3109 NMAC]

Operational Actions with Implementation Deadlines

#	Terms and Conditions
3.	Within 90 days following the effective date of this Discharge Permit (by DATE), the permittee shall remove the vegetation, debris and sludge from the southernmost synthetically lined impoundment at the WWTF. Removed sludge shall be contained, transported, and disposed of in accordance with all local, state, and federal regulations, including 40 CFR Part 503.

#	Terms and Conditions
	<p>Within 120 days following the effective date of this Discharge Permit (by DATE), the permittee shall submit an engineering report evaluating the integrity of the synthetic liner in the southernmost synthetically lined impoundment to NMED for approval. The report shall be certified by a licensed New Mexico professional engineer (PE) and shall identify any repairs, including liner repairs and piping changes, necessary to ensure the ability of the synthetic liner to contain liquids.</p> <p>Within 60 days following NMED approval, the repairs shall be implemented and the permittee shall return the cleaned and repaired southernmost synthetically lined impoundment to service and maintain the impoundment in service unless directed to do otherwise by NMED in writing.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, 40 CFR Part 503]</p>
4.	<p>Within 90 days following the effective date of this Discharge Permit (by DATE), the permittee shall measure the thickness of the settled solids in the northernmost synthetically lined impoundments located at the WWTF and the two synthetically lined impoundments located east and west of fairway 12 on the PHCC golf course and report the results of the solids depth measurements to NMED.</p> <p>The permittee shall measure the thickness of settled solids in accordance with the following procedure.</p> <ol style="list-style-type: none"> a) The total surface area of the treatment impoundment shall be divided into nine equal sub-areas. b) A settled solids measurement device (core sampler) shall be utilized to obtain one settled solids thickness measurement (to the nearest half-foot) per sub-area. c) The nine settled solids measurements shall be averaged. <p>In the event the average solids accumulation exceeds one-third of the maximum liquid depth in the impoundment(s), the permittee shall propose a plan for the removal and disposal of the solids from the treatment impoundment(s). The solids removal and disposal plan shall be submitted to NMED for approval within 180 days following the effective date of this Discharge Permit (by DATE), and shall include the following:</p> <ol style="list-style-type: none"> a) A method for removal of the solids to a depth of less than six inches throughout the treatment impoundment in a manner that is protective of the impoundment liner. b) A description of how the solids will be contained, transported, and disposed of in accordance with all local, state, and federal regulations, including 40 CFR Part 503. c) A schedule for completion of the solids removal and disposal project. <p>The permittee shall initiate implementation of the plan following approval by NMED.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, 40 CFR Part 503]</p>

Operating Conditions

#	Terms and Conditions																																																
5.	<p>Reclaimed wastewater discharge from the chlorine contact chamber and intended for use on the PHCC golf course shall not exceed the following limitations:</p> <table border="1" data-bbox="293 485 1235 821"> <thead> <tr> <th data-bbox="300 493 548 590">Test</th> <th data-bbox="548 493 769 590">30-day geometric mean</th> <th data-bbox="769 493 1003 590">30-day average</th> <th data-bbox="1003 493 1229 590">maximum</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 590 548 667">Fecal coliform bacteria:</td> <td data-bbox="548 590 769 667">5 Org/100 mL</td> <td data-bbox="769 590 1003 667">N/A</td> <td data-bbox="1003 590 1229 667">23 Org/100 mL</td> </tr> <tr> <td data-bbox="300 667 548 705">BOD₅:</td> <td data-bbox="548 667 769 705">N/A</td> <td data-bbox="769 667 1003 705">10 mg/L</td> <td data-bbox="1003 667 1229 705">15 mg/L</td> </tr> <tr> <td data-bbox="300 705 548 743">Turbidity:</td> <td data-bbox="548 705 769 743">N/A</td> <td data-bbox="769 705 1003 743">5 NTU</td> <td data-bbox="1003 705 1229 743">10 NTU</td> </tr> <tr> <td data-bbox="300 743 548 781">TRC:</td> <td data-bbox="548 743 769 781">N/A</td> <td data-bbox="769 743 1003 781">Monitor Only</td> <td data-bbox="1003 743 1229 781">Monitor Only</td> </tr> <tr> <td data-bbox="300 781 548 819">Total Nitrogen</td> <td data-bbox="548 781 769 819">N/A</td> <td data-bbox="769 781 1003 819">N/A</td> <td data-bbox="1003 781 1229 819">15 mg/L</td> </tr> </tbody> </table> <p>Upon implementation of Condition 27, reclaimed wastewater discharged from the chlorine contact chamber and intended for use on the PHCC golf course shall not exceed the following limitations:</p> <table border="1" data-bbox="293 1003 1235 1339"> <thead> <tr> <th data-bbox="300 1012 548 1108">Test</th> <th data-bbox="548 1012 769 1108">30-day geometric mean</th> <th data-bbox="769 1012 1003 1108">30-day average</th> <th data-bbox="1003 1012 1229 1108">maximum</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 1108 548 1186">Fecal coliform bacteria:</td> <td data-bbox="548 1108 769 1186">5 Org/100 mL</td> <td data-bbox="769 1108 1003 1186">N/A</td> <td data-bbox="1003 1108 1229 1186">23 Org/100 mL</td> </tr> <tr> <td data-bbox="300 1186 548 1224">BOD₅:</td> <td data-bbox="548 1186 769 1224">N/A</td> <td data-bbox="769 1186 1003 1224">10 mg/L</td> <td data-bbox="1003 1186 1229 1224">15 mg/L</td> </tr> <tr> <td data-bbox="300 1224 548 1262">Turbidity:</td> <td data-bbox="548 1224 769 1262">N/A</td> <td data-bbox="769 1224 1003 1262">3 NTU</td> <td data-bbox="1003 1224 1229 1262">5 NTU</td> </tr> <tr> <td data-bbox="300 1262 548 1299">TRC:</td> <td data-bbox="548 1262 769 1299">N/A</td> <td data-bbox="769 1262 1003 1299">Monitor Only</td> <td data-bbox="1003 1262 1229 1299">Monitor Only</td> </tr> <tr> <td data-bbox="300 1299 548 1337">Total Nitrogen</td> <td data-bbox="548 1299 769 1337">N/A</td> <td data-bbox="769 1299 1003 1337">N/A</td> <td data-bbox="1003 1299 1229 1337">10 mg/L</td> </tr> </tbody> </table> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]</p>	Test	30-day geometric mean	30-day average	maximum	Fecal coliform bacteria:	5 Org/100 mL	N/A	23 Org/100 mL	BOD ₅ :	N/A	10 mg/L	15 mg/L	Turbidity:	N/A	5 NTU	10 NTU	TRC:	N/A	Monitor Only	Monitor Only	Total Nitrogen	N/A	N/A	15 mg/L	Test	30-day geometric mean	30-day average	maximum	Fecal coliform bacteria:	5 Org/100 mL	N/A	23 Org/100 mL	BOD ₅ :	N/A	10 mg/L	15 mg/L	Turbidity:	N/A	3 NTU	5 NTU	TRC:	N/A	Monitor Only	Monitor Only	Total Nitrogen	N/A	N/A	10 mg/L
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6.	<p>The permittee shall meet the following general requirements for above-ground use of reclaimed domestic wastewater:</p> <ol style="list-style-type: none"> <li data-bbox="293 1514 1430 1801">a) The permittee shall maintain signs in English and Spanish at all re-use areas such that they are visible and legible for the term of this Discharge Permit. The signs shall be posted at the entrance to re-use areas and at other locations where public exposure to reclaimed wastewater may occur. The signs shall state: NOTICE: THIS AREA IS IRRIGATED WITH RECLAIMED WASTEWATER - DO NOT DRINK. AVISO: ESTA ÁREA ESTÁ REGADA CON AGUAS NEGRAS RECOBRADAS - NO TOMAR. Alternate wording and/or graphics may be submitted to NMED for approval. <li data-bbox="293 1801 1430 1871">b) The reclaimed wastewater systems shall have no direct or indirect cross connections with public water systems or irrigation wells pursuant to the latest revision of the 																																																

#	Terms and Conditions
	<p>New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NAMC).</p> <ul style="list-style-type: none"> c) Above-ground use of reclaimed wastewater shall not result in excessive ponding of wastewater, and shall not exceed the water consumptive needs of the crop. Re-use shall not be conducted at times when the re-use area is saturated or frozen. d) The discharge of reclaimed wastewater shall be confined to the re-use area. e) The discharge of reclaimed domestic wastewater to crops for human consumption is prohibited. f) Water supply wells within 200 feet of a re-use area shall have adequate wellhead construction pursuant to 19.27.4 NMAC. Re-use shall be managed to ensure protection of ground water quality. g) Existing and accessible portions of the reclaimed 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 wastewater distribution system. Piping, valves and outlets that are installed during the term of this Discharge Permit shall be colored purple pursuant to the latest revision of the New Mexico Plumbing Code (14.8.2 NMAC) and New Mexico Mechanical Code (14.9.2 NAMC) to differentiate piping or fixtures used to convey reclaimed wastewater from those intended for potable or other uses. Valves, outlets, and sprinkler heads used in reclaimed wastewater systems shall be accessible only to authorized personnel. <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]</p>
7.	<p>In the event that a cross-connection with fresh water exists, the permittee shall institute a backflow prevention method to protect wells and public water supply systems from contamination by reclaimed wastewater prior to discharging to the re-use 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 wastewater delivery system. Backflow prevention shall be maintained at all times.</p> <p>RP devices shall be 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. A malfunctioning RP device shall be repaired or replaced within 30 days of discovery, and use of all supply lines associated with the RP device shall cease until repair or replacement has been completed. Copies of the inspection and maintenance records and test results for each RP device associated with the backflow prevention program shall be maintained at a location available for inspection by NMED.</p>

#	Terms and Conditions
	[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]
8.	<p>The permittee shall maintain fences around the WWTF to control access by the general public and animals. The fences shall consist of a minimum of six-foot chain link or field fencing and locking gates. Fences shall be maintained throughout the term of this Discharge Permit.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
9.	<p>The permittee shall maintain signs indicating that the wastewater at the facility is not potable. Signs shall be posted at the facility entrance and other areas where there is potential for public contact with wastewater. All signs shall be printed in English and Spanish remain visible and legible for the term of this Discharge Permit.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
10.	<p>The permittee shall maintain the impoundment liner(s) in such a manner as to avoid conditions which could affect the structural integrity of the impoundment(s) and/or impoundment liner(s). Such conditions include or may be characterized by the following:</p> <ul style="list-style-type: none"> • erosion damage; • animal burrows or other damage; • 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; • the presence of large debris or large quantities of debris in the impoundment; • evidence of seepage; and • evidence of berm subsidence. <p>Vegetation growing around the impoundment shall be routinely controlled by mechanical removal in a manner that is protective of the impoundment liner.</p> <p>The permittee shall visually inspect the impoundment(s) 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 liner, or that may result in an unauthorized discharge, the permittee shall enact the contingency plan set forth in this Discharge Permit.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
11.	<p>The permittee shall preserve a minimum of two feet of freeboard between the liquid level in the impoundment(s) and the elevation of the top of the impoundment liner. In the event that the permittee determines that two feet of freeboard cannot be preserved in the impoundment, the permittee shall enact the contingency plan set forth in this</p>

#	Terms and Conditions
	<p>Discharge Permit.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
12.	<p>The permittee shall properly manage all solids generated by the treatment system to maintain effective operation by removing solids as necessary in accordance with accepted process control methods (i.e. “wasting”). Waste solids removed from the treatment process shall be contained and thickened within the aerobic digester until removed by a sludge hauler. The permittee shall maintain records of process control tests used to determine the solids wasting schedule.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
13.	<p>The permittee shall measure the total solids concentration and the volume of sludge removed from the aerobic digester by a sludge hauler and calculate the total dry weight of solids removed from the digester during each sludge removal event.</p> <p>The volume, total solids concentration and total dry weight of the solids removed from the aerobic digester by a sludge hauler shall be reported to NMED in the quarterly monitoring reports. If no sludge is removed from the digester for a given quarter, the permittee shall report that no sludge was removed in the quarterly monitoring reports.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
14.	<p>The permittee shall utilize operators, certified by the State of New Mexico at the appropriate level, to operate the wastewater collection, treatment and disposal systems. The operations and maintenance of all or any part of the wastewater system shall be performed by, or under the direct supervision of, a certified operator. Operation and maintenance of the reclaimed wastewater storage and irrigation systems at PHCC are exempt from this requirement.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, 20.7.4 NMAC]</p>

B. MONITORING AND REPORTING

#	Terms and Conditions
15.	<p>The permittee shall conduct the following monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC, 20.6.2.3107 NMAC]</p>
16.	<p>METHODOLOGY – Unless otherwise approved in writing by NMED, the permittee shall conduct sampling and analysis in accordance with the most recent edition of the</p>

#	Terms and Conditions
	<p>following documents:</p> <ul style="list-style-type: none"> a) American Public Health Association, Standard Methods for the Examination of Water and Wastewater (18th, 19th or current) b) U.S. Environmental Protection Agency, Methods for Chemical Analysis of Water and Waste c) U.S. Geological Survey, Techniques for Water Resources Investigations of the U.S. Geological Survey d) American Society for Testing and Materials, Annual Book of ASTM Standards, Part 31. Water e) U.S. Geological Survey, et al., National Handbook of Recommended Methods for Water Data Acquisition f) Federal Register, latest methods published for monitoring pursuant to Resource Conservation and Recovery Act regulations g) Methods of Soil Analysis: Part 1. Physical and Mineralogical Methods; Part 2. Microbiological and Biochemical Properties; Part 3. Chemical Methods, American Society of Agronomy <p>[Subsection B of 20.6.2.3107 NMAC]</p>
17.	<p>The permittee shall submit quarterly monitoring reports to NMED for the most recently completed quarterly period by the 1st of February, May, August and November each year.</p> <p>Quarterly monitoring shall be performed during the following periods and submitted as follows:</p> <ul style="list-style-type: none"> • January 1st through March 31st (first quarter) – due by May 1st • April 1st through June 30th (second quarter) – due by August 1st • July 1st through September 30th (third quarter) – due by November 1st • October 1st through December 31st (fourth quarter) – due by February 1st <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>

Ground Water Monitoring Conditions

#	Terms and Conditions
18.	<p>The permittee shall perform quarterly ground water sampling in the following monitoring wells and analyze the samples for dissolved TKN, NO₃-N, TDS and Cl:</p> <ul style="list-style-type: none"> • MW-1, 32° 18' 40.84631"N, 106° 51' 24.48476"W; located approximately 50-ft south of the westernmost synthetically lined impoundment. • MW-2, 32° 18' 40.94759"N, 106° 51' 22.69612"W; located approximately 30-ft east of the northernmost synthetically lined impoundment and intended to be located

#	Terms and Conditions
	<p>hydrologically downgradient of the impoundment.</p> <ul style="list-style-type: none"> • MW-3, 32° 18' 39.54209"N, 106° 51' 22.10310"W; located approximately 30-ft east of the southernmost synthetically lined impoundment and intended to be located hydrologically downgradient of the impoundment. • MW-A, 32° 18' 46.40020"N, 106° 51' 28.91794"W; located southeast of the synthetically lined golf course impoundment receiving reclaimed wastewater from the WWTF and intended to be located hydrologically downgradient of the impoundment. • MW-B, 32° 18' 42.16682"N, 106° 51' 30.67981"W; located southeast of synthetically lined golf course impoundment mixing reclaimed wastewater with fresh water and intended to be located hydrologically downgradient of the impoundment. • MW-C, 32° 18' 55.00210"N, 106° 51' 37.38969"W; located west of golf course fairway #5 and intended to be located hydrologically upgradient of the golf course and WWTF synthetically lined impoundments. <p>The permittee shall ensure each monitoring well is labeled as directed by this Discharge Permit.</p> <p>Ground water sample collection, preservation, transport and analysis shall be performed according to the following procedure:</p> <ol style="list-style-type: none"> a) Measure the depth-to-most-shallow ground water from the top of the well casing to the nearest hundredth of a foot. b) Purge three well volumes of water from the well prior to sample collection. c) Obtain samples from the well for analysis. d) Properly prepare, preserve and transport samples. e) Analyze samples in accordance with the methods authorized in this Discharge Permit. <p>Depth-to-most-shallow ground water measurements, analytical results, including the laboratory QA/QC summary report, and a facility layout map showing the location and number of each well shall be submitted to NMED in the quarterly monitoring reports.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>

Facility Monitoring Conditions

#	Terms and Conditions
19.	<p>The permittee shall measure the totalized, average daily and peak daily volume of wastewater discharged to the treatment facility each month using a primary measuring device (headworks Parshall flume equipped with head sensing, totalizing and chart recording/data logging mechanisms). The totalized, average daily and peak daily</p>

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	<p>discharge volumes for each month shall be submitted to NMED in the quarterly monitoring reports.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]</p>
20.	<p>The permittee shall measure the monthly volume of reclaimed wastewater discharged from the treatment system to the WWTF storage impoundments using a totalizing flow meter. The permittee shall obtain flow measurement readings from a totalizing flow meter located on the chlorine contact chamber discharge pump forcemain on a monthly basis and calculate the monthly discharge volume.</p> <p>The monthly meter readings, and calculated monthly and average daily discharge volumes shall be submitted to NMED in the quarterly monitoring reports each year.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]</p>
21.	<p>All flow meters shall be capable of having their accuracy ascertained under actual working (field) conditions. A field calibration method shall be developed for each flow meter and that method shall be used to check the accuracy of each respective meter. Field calibrations shall be performed upon repair or replacement of a flow measurement device and, at a minimum, once within 90 days of the effective date of this Discharge Permit (by DATE).</p> <p>Flow meters shall be calibrated to within plus or minus 10 percent of actual flow, as measured under field conditions. Field calibrations shall be performed by an individual knowledgeable in flow measurement and in the installation/operation of the particular device in use. A flow meter calibration report shall be prepared for each flow measurement device at the frequency calibration is required. The flow meter calibration report shall include the following information:</p> <ol style="list-style-type: none"> a) The location and meter identification. b) The method of flow meter field calibration employed. c) The measured accuracy of each flow meter prior to adjustment indicating the positive or negative offset as a percentage of actual flow as determined by an in-field calibration check. d) The measured accuracy of each flow meter following adjustment, if necessary, indicating the positive or negative offset as a percentage of actual flow of the meter. e) Any flow meter repairs made during the previous year or during field calibration. <p>The permittee shall maintain records of flow meter calibration(s) at a location accessible for review by NMED during facility inspections.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]</p>

<p>22.</p>	<p>The permittee shall visually inspect flow meters on a monthly basis for evidence of malfunction. 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>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]</p>
<p>23.</p>	<p>The permittee shall collect samples of treated wastewater from the chlorine contact chamber on a quarterly basis and analyze the samples for TKN, NO₃-N, TDS and Cl. Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical results shall be submitted to NMED in the quarterly monitoring reports.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
<p>24.</p>	<p>The permittee shall perform the following analyses on reclaimed wastewater samples collected from the chlorine contact chamber using the following sampling method and frequency:</p> <ul style="list-style-type: none"> • Fecal coliform bacteria: grab sample, collected between the hours of 8:00 AM and 3:00 PM, once per week. • BOD₅: six-hour, flow-weighted composite sample, collected between the hours of 8:00 AM and 3:00 PM, once per two weeks. • Turbidity: continuously monitor reclaimed wastewater turbidity after the final treatment process (maximum sample interval; 15 minutes); record the turbidity reading every 15 minutes and calculate the average and maximum turbidity values for each calendar month. • TRC concentrations: record whenever fecal coliform samples are collected. <p>Samples shall be properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. Analytical methods for all analysis, including TRC, shall conform to the methods approved in this Discharge Permit. Analytical results, monthly average and maximum turbidity values, and a copy of the log of TRC concentrations shall be submitted to NMED in the quarterly monitoring reports.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC, Subsection A</p>

	of 20.6.2.3107 NMAC]
25.	<p>The permittee shall keep a log (copy enclosed) of all additional nitrogenous fertilizer applied to PHCC golf course fairway and greens within the area where reclaimed wastewater is applied (directly, or blended with fresh water). 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 log, or a statement that application of fertilizer did not occur, shall be submitted to NMED in the quarterly monitoring reports.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>

C. ADDITIONAL STUDIES/CORRECTIVE ACTIONS REQUIRED

#	Terms and Conditions
26.	<p>The permittee shall prepare, submit and implement a Corrective Action Plan (CAP) to address the following problems identified with the permittee’s discharge plan:</p> <ol style="list-style-type: none"> 1. The facility does not contain adequate reclaimed wastewater storage to avoid the transfer of reclaimed domestic wastewater from the PHUC WWTF to the PHCC golf course impoundments at times when irrigation of the golf course turf is inappropriate, due to low water demand of the turf, precipitation events, or frozen ground conditions. 2. The facility does not have an alternate discharge location to avoid transfer of reclaimed domestic wastewater from PHUC WWTF to the PHCC golf course impoundments at times when the reclaimed domestic wastewater quality is inappropriate for irrigation of the golf course, in accordance with this Discharge Permit. 3. If PHUC proposes to continue to transfer reclaimed domestic wastewater to high public contact areas, such as the PHCC golf course beyond two years of the effective date of this discharge permit, upgrades to the WWTF shall be implemented to ensure that it is capable of consistently providing reclaimed domestic wastewater that meets an effluent limit for total nitrogen of < 10 mg/L and meets Class 1A reuse quality, as defined NMED’s <i>Ground Water Quality Bureau Guidance Document: Above Ground Use of Reclaimed Domestic Wastewater, January 2007</i>. <p>Within 180 days of the effective date of this Discharge Permit (by DATE), the permittee shall prepare and submit a Preliminary Engineering Report (PER), certified by a licensed New Mexico professional engineer, to NMED that proposes specific methods for addressing the problems identified above.</p>

#	Terms and Conditions
	<p>To address problems #1 and #2 above, the PER shall identify a potential alternate discharge location, separate from PHCC, where reclaimed wastewater from the PHUC WWTF can be discharged at times when irrigation of the golf course is inappropriate. The alternate discharge locations may include:</p> <ul style="list-style-type: none"> a) An outfall to a surface water body via a discharge pipeline, authorized under the federal National Pollutant Discharge Elimination System (NPDES) permitting program. b) Additional synthetically lined reclaimed wastewater storage impoundment(s) and a separate land application site that would entail low public contact with the reclaimed wastewater, and thus a lower water quality requirement (i.e. agricultural land). The additional storage impoundments(s) would have to be adequately sized to avoid irrigation of the golf course turf and new land application area at times when irrigation is inappropriate, and may need to segregate reclaimed wastewaters of differing qualities. Note that a modification of this Discharge Permit may be required to implement these options. c) Alternatives not yet identified. <p>To address problem #3 above, the PER shall evaluate upgrades to the WWTF that are necessary to achieve the reclaimed domestic wastewater quality requirements of this Discharge Permit. This element is only required to be included in the PER if the facility intends to continue discharging reclaimed domestic wastewater to high public contact areas, such as the PHCC golf course.</p> <p>The PER shall identify the preferred alternate(s) for resolving the problems identified above. The Permittee shall submit the PER as part of its CAP, along with a commitment to implement the preferred alternative of the PER and a timeline for doing so. The CAP shall be fully implemented following approval by NMED. Full implementation of the CAP shall be completed before the end of the term of this Discharge Permit (by Date).</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>

D. CONTINGENCY PLAN

#	Terms and Conditions
27.	<p>In the event that ground water monitoring indicates that a ground water quality standard identified in Section 20.6.2.3103 NMAC is exceeded; the total nitrogen concentration in ground water is greater than 10 mg/L; or a toxic pollutant (defined in Subsection WW of 20.6.2.7 NMAC) is present in a ground water sample and in any subsequent ground water sample collected from a monitoring well required by this Discharge Permit, the permittee shall enact the following contingency plan:</p>

#	Terms and Conditions
	<p>Within 60 days of the subsequent sample analysis date, the permittee shall propose measures to ensure that the exceedance of the standard or the presence of a toxic pollutant will be mitigated by submitting a corrective action plan to NMED for approval. The corrective action plan shall include a description of the proposed actions to control the source and an associated completion schedule. The plan shall be enacted as approved by NMED.</p> <p>Once invoked (whether during the term of this Discharge Permit; or after the term of this Discharge Permit and prior to the completion of the Discharge Permit closure plan requirements), this condition shall apply until the permittee has fulfilled the requirements of this condition and ground water monitoring confirms for a minimum of two years of consecutive ground water sampling events that the standards of Section 20.6.2.3103 NMAC are not exceeded and toxic pollutants are not present in ground water.</p> <p>The permittee may be required to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC, should the corrective action plan not result in compliance with the standards and requirements set forth in Section 20.6.2.4103 NMAC within 180 days of confirmed ground water contamination.</p> <p>The exceedances of ground water standards known to exist at the time of issuance of this Discharge Permit are exempt from this Condition, provided they are addressed by the permittee under Condition 27 of this Discharge Permit.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
28.	<p>In the event that information available to NMED indicates that a monitoring well(s) required by this Discharge Permit is not constructed in a manner consistent with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.1, March 2011; contains insufficient water to effectively monitor ground water quality; or is not completed in a manner that is protective of ground water 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 150 days following notification from NMED.</p> <p>Replacement well location(s) shall be approved by NMED prior to installation and completed in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.1, March 2011. The permittee shall submit construction and lithologic logs, survey data and a ground water elevation contour map to NMED within 60 days following well completion.</p>

#	Terms and Conditions
	<p>Upon completion of the replacement monitoring well(s), the monitoring well(s) requiring replacement shall be properly plugged and abandoned. Well plugging, abandonment and documentation of the abandonment procedures shall be completed in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.1, March 2011, and all applicable local, state, and federal regulations. The well abandonment documentation shall be submitted to NMED within 60 days of completion of well plugging activities.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
29.	<p>In the event that ground water flow information obtained pursuant to this Discharge Permit indicates that a monitoring well(s) is not located hydrologically downgradient of the discharge location(s) it is intended to monitor, the permittee shall install a replacement well(s) within 120 days following notification from NMED. The permittee shall survey the replacement monitoring well(s) within 150 days following notification from NMED.</p> <p>Replacement well location(s) shall be approved by NMED prior to installation and completed in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.1, March 2011. The permittee shall submit construction and lithologic logs, survey data and a ground water elevation contour map within 30 days following well completion.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC]</p>
30.	<p>In the event that analytical results of a quarterly treated wastewater sample indicate an exceedance of the total nitrogen limitation set in this Discharge Permit, the permittee shall collect and analyze a second sample within 30 days of the first sample analysis date. In the event the second sample results indicate that the limitation is continuing to be exceeded, the following contingency plan shall be enacted:</p> <ol style="list-style-type: none"> a) Within 15 days of the second sample analysis date indicating that the limitation is continuing to be exceeded, the permittee shall <ol style="list-style-type: none"> i) notify NMED that the contingency plan is being enacted; and ii) submit a copy of the first and second analytical results indicating an exceedance to NMED. b) The permittee shall increase the frequency of total nitrogen wastewater sampling and analysis of treated wastewater to once per month. c) The permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures. d) The permittee shall conduct a physical inspection of the treatment system to detect abnormalities. Any abnormalities discovered shall be corrected. A report detailing the corrections made shall be submitted to NMED within 30 days of correction.

#	Terms and Conditions
	<p>e) In the event that any analytical results from monthly wastewater sampling indicate an exceedance of the total nitrogen limitation, the permittee shall propose to modify operational procedures and/or upgrade the treatment process to achieve the total nitrogen limit by submitting a corrective action plan to NMED for approval. The plan shall include a schedule for completion of corrective actions and shall be submitted within 90 days of the second sample analysis date indicating that the limitation is continuing to be exceeded. The permittee shall initiate implementation of the plan following approval by NMED.</p> <p>When analytical results from three consecutive months of wastewater sampling do not exceed the limitation, the permittee is authorized to return to a quarterly monitoring frequency.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
31.	<p>In the event that analytical results of a reclaimed domestic wastewater sample indicates an exceedance of any of the maximum limitations for BOD₅, turbidity, or fecal coliform bacteria set by this Discharge Permit, the permittee shall collect and analyze a second sample within 24 hours after becoming aware of the exceedance. In the event the second sample results indicate that any maximum limitation is continuing to be exceeded (i.e., confirmed exceedance), the contingency plan below shall be enacted.</p> <p style="text-align: center;">AND / OR</p> <p>In the event that analytical results of a reclaimed domestic wastewater sample indicates an exceedance of any of the 30-day average limitations for BOD₅, turbidity, or fecal coliform bacteria set by this Discharge Permit (i.e., confirmed exceedance), the contingency plan below shall be enacted.</p> <p><u>Contingency Plan</u></p> <ol style="list-style-type: none"> a) Within 24 hours of becoming aware of a confirmed exceedance (as identified above), the permittee shall: <ol style="list-style-type: none"> i) notify NMED that the contingency plan is being enacted; and ii) submit copies of the recent analytical results indicating an exceedance to NMED. b) The permittee shall immediately cease discharging reclaimed domestic wastewater to the re-use area. c) The permittee shall implement additional treatment and/or monitoring of reclaimed domestic wastewater, as directed by NMED, to ensure the greatest protection of public health is maintained during the time that the WWTF is out of compliance with the effluent limits of this Discharge Permit. d) The permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures.

#	Terms and Conditions
	<p>e) The permittee shall conduct a physical inspection of the treatment system to detect abnormalities. Any abnormalities discovered shall be corrected. A report detailing the corrections made shall be submitted to NMED within 30 days following correction.</p> <p>When the analytical results from samples of reclaimed domestic wastewater, sampled as required by this Discharge Permit, no longer indicate an exceedance of any of the maximum limitations, the permittee may resume discharging reclaimed wastewater to the re-use area.</p> <p>If a facility is required to enact the contingency plan more than two times in a 12-month period, the permittee shall propose to modify operational procedures and/or upgrade the treatment process to achieve consistent compliance with the maximum and 30-day average limitations by submitting a corrective action plan for NMED approval. The plan shall include a schedule for completion of corrective actions and shall be submitted within 60 days following the second sample analysis date. The permittee shall initiate implementation of the plan following approval by NMED. Prior to recommencing discharge to the re-use area, additional sampling of any stored reclaimed wastewater may be required by NMED in response to the submitted corrective action plan.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
32.	<p>In the event that inspection findings reveal significant damage likely to affect the structural integrity of the lined impoundment(s) or its ability to contain contaminants, the permittee shall propose the repair or replacement of the impoundment liner(s) by submitting a corrective action plan to NMED for approval. The plan shall be submitted to NMED within 30 days after discovery by the permittee or following notification from NMED that significant liner damage is evident. The corrective action plan shall include a schedule for completion of corrective actions and the permittee shall initiate implementation of the plan following approval by NMED.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
33.	<p>In the event that observation by the permittee or NMED indicate significant solids accumulation within the synthetically lined impoundments located at the WWTF and/or the two synthetically lined impoundments located east and west of fairway 12 on the PHCC golf course, the permittee shall conduct the solids level measurements required under Condition 4 of this Discharge Permit and perform removal of the accumulated solids in accordance with that permit condition. Implementation of this condition can be made voluntarily by the permittee or upon receipt of written notification by NMED of the necessity to do so.</p>

#	Terms and Conditions
	[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]
34.	<p>In the event that a minimum of two feet of freeboard cannot be preserved in the impoundment(s), the permittee shall take actions authorized by this Discharge Permit and all applicable local, state, and federal regulations to restore the required freeboard.</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 be immediately implemented to restore two feet of freeboard by submitting a short-term corrective action plan to NMED for approval. Examples of short-term corrective actions include: removing excess wastewater from the impoundment through pumping and hauling; or reducing the volume of wastewater discharged to the impoundment. The plan shall include a schedule for completion of corrective actions and shall be submitted within 15 days following the date when the two feet of freeboard limit was initially discovered. The permittee shall initiate implementation of the plan following approval by NMED.</p> <p>In the event that the short-term corrective actions failed to restore two feet of freeboard, the permittee shall propose permanent corrective actions in a long-term corrective action plan submitted to NMED within 90 days following failure of the short-term corrective action plan. Examples include: the installation of an additional storage impoundment, or a significant/permanent reduction in the volume of wastewater discharged to the impoundment. The plan shall include a schedule for completion of corrective actions and implementation of the plan shall be initiated following approval by NMED.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
35.	<p>In the event that a release (commonly known as a “spill”) occurs that is not authorized under this Discharge Permit, 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.</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> <ol style="list-style-type: none"> a) The name, address, and telephone number of the person or persons in charge of the facility, as well as of the owner and/or operator of the facility. b) The name and address of the facility. c) The date, time, location, and duration of the unauthorized discharge. d) The source and cause of unauthorized discharge. e) A description of the unauthorized discharge, including its estimated chemical composition. f) The estimated volume of the unauthorized discharge. g) Any actions taken to mitigate immediate damage from the unauthorized discharge.

#	Terms and Conditions
	<p>Within <u>one week</u> following discovery of the unauthorized discharge, the permittee shall submit written notification to NMED with the information listed above and any pertinent updates.</p> <p>Within <u>15 days</u> following discovery of the unauthorized discharge, the permittee shall submit a corrective action report/plan to NMED describing any corrective actions taken and/or to be taken relative to the unauthorized discharge that includes the following:</p> <ul style="list-style-type: none"> a) A description of proposed actions to mitigate damage from the unauthorized discharge. b) A description of proposed actions to prevent future unauthorized discharges of this nature. c) A schedule for completion of proposed actions. <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, the permittee may be required to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC.</p> <p>Nothing in this condition shall be construed as relieving the permittee of the obligation to comply with all requirements of Section 20.6.2.1203 NMAC.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, 20.6.2.1203 NMAC]</p>
36.	<p>In the event that NMED or the permittee identifies any failures of the discharge plan or this Discharge Permit not specifically noted herein, NMED may require the permittee to submit a corrective action plan 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>[NMSA 1978, § 74-6-5.D, Subsections B and E of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>

E. CLOSURE PLAN

Closure Actions with Implementation Deadlines

#	Terms and Conditions
37.	<p>Within three years of the effective date of this Discharge Permit (by DATE), the permittee shall commence the following closure measures on the two “old” synthetically</p>

#	Terms and Conditions
	<p>lined impoundments located at the WWTF that are no longer in use:</p> <p>a) Drain wastewater from the impoundment and any other wastewater system components and dispose of it in accordance with all local, state and federal regulations, or evaporate remaining wastewater from the impoundment. The discharge of accumulated solids (sludge) from the impoundment to the re-use area is prohibited.</p> <p>Within <u>90 days</u> prior to closure of the two “old” synthetically lined impoundments, the permittee shall submit a sludge removal and disposal plan to NMED for approval. The sludge removal and disposal plan shall include the following:</p> <p>a) The estimated volume and dry weight of sludge to be removed and disposed, including measurements and calculations.</p> <p>b) Analytical results for samples of the sludge taken from the impoundment for TKN, NO₃-N, percent total solids, and any other parameters tested (reported in mg/kg, dry weight basis).</p> <p>c) The method(s) of sludge <i>removal</i> from the impoundment.</p> <p>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 Ground Water Discharge Permitting requirements pursuant to 20.6.2.3104 NMAC that are separate from the requirements of this Discharge Permit.</i></p> <p>e) A schedule for completion of sludge removal and disposal not to exceed two years from the date discharge to the impoundment ceased.</p> <p>The permittee shall initiate implementation of the plan within 30 days following approval by NMED.</p> <p>Within <u>one year</u> following completion of the sludge removal and disposal, the permittee shall complete the following closure measures for the impoundment:</p> <p>a) Remove all lines leading to and from the impoundment, or permanently plug and abandon them in place.</p> <p>b) Perforate or remove the impoundment liner.</p> <p>c) Fill the impoundment with suitable fill.</p> <p>d) Re-grade the impoundment site to blend with surface topography, promote positive drainage and prevent ponding.</p> <p>The permittee shall continue to sample ground water monitoring wells associated with the closed impoundment until the requirements of this condition have been met and ground water monitoring confirms for a minimum of two years of consecutive ground water sampling events that the standards of Section 20.6.2.3103 NMAC are not exceeded and toxic pollutants are not present in ground water.</p>

#	Terms and Conditions
	<p>If monitoring results show that a ground water quality standard in Section 20.6.2.3103 NMAC is exceeded; the total nitrogen concentration in ground water is greater than 10 mg/L; or a toxic pollutant (defined in Subsection WW of 20.6.2.7 NMAC) is present in ground water, the permittee shall implement the contingency plan required by this Discharge Permit.</p> <p>Following notification from NMED that post-closure monitoring may cease, the permittee shall plug and abandon the monitoring well(s) in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.1, March 2011.</p> <p>In the event that the “old” synthetically lined impoundments are needed to be utilized as components of the WWTF in the future, this closure requirement may be modified as appropriate upon NMED approval.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC, 40 CFR Part 503]</p>

Permanent Facility Closure Conditions

38.	<p>In the event that the facility, or a component of a facility, is proposed to be permanently closed, upon ceasing discharging, the permittee shall perform the following closure measures:</p> <p>Within <u>90 days</u> of ceasing discharge to the treatment system, the permittee shall complete the following closure measures:</p> <ol style="list-style-type: none"> a) The line leading to the system shall be plugged so that a discharge can no longer occur. b) Wastewater shall be discharged from the system to the re-use area, as authorized by this Discharge Permit. The discharge of accumulated solids (sludge) to the re-use area is prohibited. c) Solids shall be removed from the treatment system and storage impoundments. Solid removed from the treatment system and storage impoundments 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 solids transported for off-site disposal. <p>Within <u>180 days</u> of ceasing discharge to the treatment system (or unit), the permittee shall complete the following closure measures:</p> <ol style="list-style-type: none"> a) Remove all lines leading to and from the treatment system, units and storage impoundments, or permanently plug them and abandon them in place. b) Remove or demolish all treatment system components, and re-grade area with suitable fill to blend with surface topography, promote positive drainage and prevent
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	<p>ponding.</p> <p>c) Perforate or remove the storage impoundment liner(s); fill the impoundment(s) with suitable fill; and re-grade the impoundment site(s) to blend with surface topography, promote positive drainage and prevent ponding.</p> <p>The permittee shall continue ground water monitoring until the requirements of this condition have been met and ground water monitoring confirms for a minimum of two years of consecutive ground water sampling events that the standards of Section 20.6.2.3103 NMAC are not exceeded and toxic pollutants are not present in ground water.</p> <p>If monitoring results show that a ground water quality standard in Section 20.6.2.3103 NMAC is exceeded; the total nitrogen concentration in ground water is greater than 10 mg/L; or a toxic pollutant (defined in Subsection WW of 20.6.2.7 NMAC) is present in ground water, the permittee shall implement the contingency plan required by this Discharge Permit.</p> <p>Following notification from NMED that post-closure monitoring may cease, the permittee shall plug and abandon the monitoring well(s) in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.1, March 2011.</p> <p>When all closure and post-closure requirements have been met, the permittee may submit a written request for termination of the Discharge Permit to NMED.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC, 40 CFR Part 503]</p>
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F. GENERAL TERMS AND CONDITIONS

#	Terms and Conditions
39.	<p>RECORD KEEPING - The permittee shall maintain a written record of the following information:</p> <ul style="list-style-type: none"> a) Information and data used to complete the application for this Discharge Permit. b) Records of any releases (commonly known as “spills”) not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC. c) Records of the operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater. d) 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. e) Copies of monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit. f) The volume of wastewater or other wastes discharged pursuant to this Discharge

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	<p>Permit.</p> <ul style="list-style-type: none"> g) Ground water quality and wastewater quality data collected pursuant to this Discharge Permit. h) Copies of construction records (well log) for all ground water monitoring wells required to be sampled pursuant to this Discharge Permit. i) Records of the maintenance, repair, replacement or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit. j) Data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit. The following information shall be recorded and shall be made available to NMED upon request: <ul style="list-style-type: none"> i) The dates, location and times of sampling or field measurements; ii) The name and job title of the individuals who performed each sample collection or field measurement; iii) The sample analysis date of each sample; iv) The name and address of the laboratory, and the name of the signatory authority for the laboratory analysis; v) The analytical technique or method used to analyze each sample or collect each field measurement; vi) The results of each analysis or field measurement, including raw data; vii) The results of any split, spiked, duplicate or repeat sample; and viii) A copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used. <p>The written record shall be maintained by the permittee at a location accessible during a facility inspection by NMED for a period of at least five years from the date of application, report, collection or measurement and shall be made available to the department upon request.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, Subsection A of 20.6.2.3107 NMAC]</p>
40.	<p>INSPECTION and ENTRY – The permittee shall allow inspection by NMED of the facility and its operations which 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 are located any records required to be maintained by regulations of the federal government or the WQCC.</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>Nothing in this Discharge Permit shall be construed as limiting in any way the inspection</p>

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	<p>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>
41.	<p>DUTY to PROVIDE INFORMATION - The permittee shall, upon NMED’s request, allow NMED’s inspection/duplication of records required by this Discharge Permit and/or furnish to NMED copies of such records.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC 20.6.2.3107.D NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]</p>
42.	<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 approval (which may require modification of this Discharge Permit) by NMED prior to implementing such changes.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection E of 20.6.2.3109 NMAC, Subsection C of 20.6.2.3107 NMAC]</p>
43.	<p>PLANS and SPECIFICATIONS – In the event the permittee is proposing 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 to NMED for the proposed system or process unit prior to the commencement of construction.</p> <p>In the event the permittee implements changes to the wastewater system authorized by this Discharge Permit which 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) as of January 1 and June 30 of each year to NMED.</p> <p>[NMSA 1978, § 74-6-5.D, Subsection B of 20.6.2.3109 NMAC, 20.6.2.1202 NMAC]</p>
44.	<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-</p>

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	<p>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>[NMSA 1978, §§ 74-6-10 and 74-6-10.1]</p>
45.	<p>CRIMINAL PENALTIES – No person shall:</p> <ol style="list-style-type: none"> 1) make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or required to be maintained under the WQA; 2) falsify, tamper with or render inaccurate any monitoring device, method or record required to be maintained under the WQA; or 3) fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation. <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>[NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F]</p>
46.	<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 all applicable federal, state, and local laws, regulations, permits or orders.</p> <p>[20.6.2 NMAC]</p>
47.	<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 to be raised and the relief sought. Unless a timely petition for review is made, the decision of NMED shall be final and not subject to judicial review.</p>

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	[NMSA 1978, § 74-6-5.O]
48.	<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> <ol style="list-style-type: none"> 1) notify the proposed transferee in writing of the existence of this Discharge Permit; 2) include a copy of this Discharge Permit with the notice; and 3) deliver or send by certified mail to NMED a copy of the notification and proof that such notification has been received by the proposed transferee. <p>Until both ownership and possession of the facility have been transferred to the transferee, the permittee shall continue to be responsible for any discharge from the facility.</p> <p>[20.6.2.3111 NMAC]</p>
49.	<p>PERMIT FEES - Payment of permit fees is due at the time of Discharge Permit approval. Permit fees shall be paid in a single payment or shall be paid in equal installments on a yearly basis over the term of the Discharge Permit. Single payments shall be remitted to NMED no later than 30 days after the Discharge Permit effective date. Initial installment payments shall be remitted to NMED no later than 30 days after the Discharge Permit effective date; subsequent installment payments shall be remitted to NMED no later than the anniversary of the Discharge Permit effective date.</p> <p>Permit fees are associated with <u>issuance</u> of this Discharge Permit. Nothing in this Discharge Permit shall be construed 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. An approved Discharge Permit shall be suspended or terminated if the facility 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>

V. PERMIT TERM & SIGNATURE

EFFECTIVE DATE: effective date

TERM ENDS: expiration date

[Subsection H of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.I]

JERRY SCHOEPPNER
Acting Chief, Ground Water Quality Bureau
New Mexico Environment Department

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