

**GROUND WATER DISCHARGE PERMIT**  
**Abiquiu Inn, DP-1597**

**I. INTRODUCTION**

The New Mexico Environment Department (NMED) issues this Discharge Permit (Discharge Permit), DP-1597, to Noble Properties of New Mexico, LLC (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 Abiquiu Inn (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 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 3,600 gallons per day (gpd) of domestic wastewater is discharged to two separate on-site treatment and disposal systems. Wastewater from a twelve-unit motel and laundry is discharged to a 2,000-gallon septic tank followed by a 1,050 ft<sup>2</sup> leachfield. The remaining wastewater sources at the facility are currently discharged to five separate septic tank/leachfield systems. This Discharge Permit requires that the leachfields for the following wastewater discharges be abandoned and that wastewater be collected and treated by an Orenco AX100 wastewater treatment system: the restaurant (equipped with a 1,000-gallon grease interceptor), reception/gift-shop/gallery, rental offices, two employee trailers, and two motel rooms which discharge to three 1,500-gallon septic tanks in series; the reception/gift-shop/gallery gray water which discharges to a 1,500-gallon septic tank; a three unit casita multiplex which discharges to a 1,500-gallon septic tank; a casita duplex which discharges to a tank of unknown size; a new six unit casita multiplex and a new manager's residence which discharge to two 1,000-gallon septic tanks. Wastewater from these sources will be pumped to the Orenco AX100 wastewater treatment system comprised of a 2,000-gallon anoxic tank, a 2,000-gallon recirculation tank, and an AX100 filter pod. The treatment system is followed by a 1,000-gallon dosing tank which discharges to a 5,100 ft<sup>2</sup> low pressure dose disposal field. Wastewater from five RV spaces is discharged to a 1500-gallon holding tank, pumped by a licensed hauler as needed, and disposed of offsite. The discharge contains water contaminants or toxic pollutants which may be elevated above the standards of Section 20.6.2.3103 NMAC. The facility is located at 21120 U.S. Highway 84, Abiquiu, in projected Sections 20 and 21, T23N, R6E, Rio Arriba County. Ground water most likely to be affected is at a depth of approximately four feet and has a total dissolved solids concentration of approximately 380 milligrams per liter.

The permittee's application consists of the materials submitted by Mustafa D. Chudnoff Consulting on behalf of the permittee dated February 25, 2009 and additional information received on June 15, July 31, and October 13, 2009. Additional information was also received from P.E. McGinnis & Associates on behalf of the permittee on April 9, June 7, June 15, and

June 28, 2010. 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 and/or remediate ground water quality may be required by NMED. These requirements may include: expanding disposal areas; changing waste management practices; expanding monitoring requirements; installing an advanced treatment system; and/or implementing abatement of water pollution.

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 abbreviations may be used in this Discharge Permit:

Abbreviation	Explanation	Abbreviation	Explanation
BOD <sub>5</sub>	biochemical oxygen demand (5-day)	NTU	nephelometric turbidity units
CFR	Code of Federal Regulations	Org	organisms
Cl	chloride	TDS	total dissolved solids
LADS	land application data sheet(s)	TKN	total Kjeldahl nitrogen
mg/L	milligrams per liter	total nitrogen	TKN+NO <sub>3</sub> -N
mL	milliliters	TRC	Total Residual Chlorine
NMAC	New Mexico Administrative Code	TSS	total suspended solids
NMED	New Mexico Environment Department	WQA	New Mexico Water Quality Act
NMSA	New Mexico Statutes Annotated	WQCC	Water Quality Control Commission
NO <sub>3</sub> -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 milligrams per liter or less of total dissolved solids 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. CONDITIONS

The following conditions 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:

#### 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. [20.6.2.3106.C NMAC, 20.6.2.3107 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]
3.	The permittee is authorized to discharge up to 3,600 gallons per day (gpd) of domestic wastewater to two separate on-site treatment and disposal systems. Wastewater from a twelve-unit motel and laundry is discharged to a 2,000-gallon septic tank followed by a 1,050 ft <sup>2</sup> leachfield. The remaining wastewater sources at the facility are currently discharged to five separate septic tank/leachfield systems. This Discharge Permit requires that the leachfields for the following wastewater discharges be abandoned and that wastewater be collected and treated by an Orenco AX100 wastewater treatment system: the restaurant (equipped with a 1,000-gallon grease interceptor), reception/gift-shop/gallery, rental offices, 2 employee trailers, and 2 motel rooms which discharge to three 1,500-gallon septic tanks in series; the reception/gift-shop/gallery gray water which discharges to a 1,500-gallon septic tank; a three unit casita multiplex which discharges to a 1,500-gallon septic tank; a casita duplex which discharges to a tank of unknown size; a new six unit casita multiplex and a new manager's residence which discharge to two 1,000-gallon septic tanks. Wastewater from these sources will be pumped to the Orenco AX100 wastewater treatment system comprised of a 2,000-gallon anoxic tank, a 2,000-gallon recirculation tank, and an AX100 filter pod. The treatment system is followed by a 1,000-gallon dosing tank which discharges to a 5,100 ft <sup>2</sup> low pressure dose disposal field. Wastewater from 5 RV spaces is discharged to a 1500-gallon holding tank, pumped by a licensed hauler, as needed, and disposed of offsite. [20.6.2.3104 NMAC, 20.6.2.3106 NMAC ]
4.	Treated wastewater discharged from the 1000-gallon dosing tank to the 5,100 ft <sup>2</sup> low pressure dose disposal field shall not exceed the following limitation: <b>Total Nitrogen: 20 mg/L.</b> [20.6.2.3109 NMAC]
5.	Within 180 days of the effective date of this Discharge Permit (by [date]), the permittee shall replace the existing 1,500-gallon RV septic tank with a new holding tank to accommodate the wastewater discharge from five RV spaces. The holding tank shall be equipped with a wastewater level indicator with alarm to alert the operator that the tank is

	reaching its holding capacity. The alarm shall activate when the water level in the tank reaches $\frac{3}{4}$ of the total depth of the tank. Record drawings of the holding tank shall be submitted to NMED within 30 days of completion. [20.6.2.3109 NMAC]
6.	Within 180 days of the effective date of this Discharge Permit (by [date]), the permittee shall construct the proposed Orenco AX100 wastewater treatment system and the 5,100 ft <sup>2</sup> low pressure dose disposal field according to the final construction plans and specifications submitted to NMED on June 28, 2010. The permittee shall notify NMED at the commencement of construction to allow NMED personnel to be onsite for inspection during the construction phase. Record drawings of the finished wastewater treatment facility and the 5,100 ft <sup>2</sup> low pressure dose disposal field shall be submitted to NMED within 30 days of completion. A licensed New Mexico professional engineer shall certify all construction plans and specifications, supporting design calculations, and record drawings of the wastewater treatment system. [20.6.2.3109 NMAC]
7.	Prior to discharging from the Orenco AX100 wastewater treatment system, the permittee shall install fences around the entire wastewater treatment system or employ other mechanisms to control public access. The fences/mechanisms shall be constructed in a manner which prevents access by the general public and animals such as dogs (e.g., chain link fence, field fencing or locking lids) and shall be maintained throughout the term of this Discharge Permit. [20.6.2.3109 NMAC]
8.	Prior to discharging from the Orenco AX100 wastewater treatment system, the permittee shall post signs at the treatment system entrance and other areas where public contact is possible indicating that the water is not potable. All signs shall remain visible and legible for the term of this Discharge Permit. [20.6.2.3109 NMAC]
9.	<p>Within 90 days of the effective date of this Discharge Permit (by DATE), the permittee shall arrange for an inspection and test for water-tight construction on the septic tank(s) existing at the facility prior to February 25, 2009. The inspection and test shall be performed by a licensed New Mexico professional engineer, a person holding a valid inspector certification issued by the National Association of Wastewater Transporters, Inc. or a New Mexico licensed plumber.</p> <p>The inspection shall be performed according to the following procedure:</p> <ol style="list-style-type: none"> <li>The contents of the unit(s) shall be pumped and disposed of in accordance with all local, state, and federal (40 CFR Part 503) regulations.</li> <li>The interior of the unit(s) shall be inspected to determine the tank construction material, interior dimensions and mechanical integrity. Inspection findings shall be recorded.</li> <li>The condition of the interior of the unit(s) shall be photographically documented while the unit(s) is empty.</li> </ol> <p>Water-tightness testing shall be completed using one of the following procedures:</p> <ul style="list-style-type: none"> <li><u>Hydrostatic testing</u> shall be performed by: (1) plugging the inlet and outlet piping of the unit(s); (2) filling the unit(s) with water to the normal operating level; (3) measuring the water level; (4) allowing the water to stand for 60 minutes without the</li> </ul>

	<p>addition of more water; and (5) measuring the water level at the end of 60 minutes. A unit which does not allow a drop in water level of greater than 0.01 ft in 60 minutes is considered to be water-tight.</p> <p style="text-align: center;">- OR -</p> <ul style="list-style-type: none"> <li>• <u>Vacuum testing</u> shall be performed by: (1) sealing all openings to the unit(s); (2) applying a vacuum of 50mm of mercury to the unit(s); and (3) allowing the unit(s) to stand for 2 minutes without the application of additional vacuum. A unit that maintains at least 90% of the vacuum (i.e. greater than 45 mm of mercury remaining after 2 minutes) is considered to be water-tight.</li> </ul> <p>The permittee shall submit a report for each unit inspected/tested to NMED within 30 days of the inspection/test date. The report shall include the date of the inspection/test, the name of the individual that conducted the test, written inspection findings, photographic documentation of the tank interior and water-tightness test results. [20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p>
<p>10.</p>	<p>Within 180 days of the effective date of this Discharge Permit (by [date]), the permittee shall provide access to each septic tank by installing two 24-inch openings. The access openings shall be located above the inlet and outlet piping of the septic tank to facilitate inspection of the tank's interior, repair of the internal piping and removal of sludge and scum. The access openings shall be extended from the tank to at least three inches above the ground surface or as approved by NMED. The access openings shall have a secured lid to deter unauthorized access but the lid shall remain above ground, unconcealed by dirt or pavement. A secure lid shall consist of one of the following: a padlock; a twist lock cover requiring special tools for removal; a cover weighing 58 pounds or more, net weight; or a stainless steel hinge and hasp mechanism. The permittee shall submit photographic documentation of the installation of access-ways to septic tanks within 30 days of completion. [20.6.2.3107 NMAC]</p>
<p>11.</p>	<p>The permittee shall remove solids from the septic tanks preceding the treatment system, the anoxic tank, the recirculation tank and the dosing tank of the Orenco AX100 filter treatment system when they exceed ¼ of the liquid depth based upon quarterly sludge blanket depth determinations. The solids shall be contained, transported, and disposed of in accordance with all local, state, and federal (40 CFR Part 503) regulations. Records of solids disposal shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3109 NMAC]</p>
<p>12.</p>	<p>The permittee shall inspect the motel/laundry building 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 50% of the tank or more, the contents of the tank shall be pumped by a licensed hauler. The inspection and pumping records shall be submitted to NMED in the monitoring reports due by August 1st and February 1st each year. [20.6.2.3107 NMAC]</p>
<p>13.</p>	<p>The permittee shall utilize operators, certified by the State of New Mexico at the appropriate level, to operate the wastewater treatment and disposal systems. All operations and maintenance of all or any part of the wastewater system shall be performed by, or</p>

under the direct supervision of, a certified operator. [20.7.4 NMAC]
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### MONITORING, REPORTING, AND OTHER REQUIREMENTS

#	Terms and Conditions
14.	The permittee shall conduct the following monitoring, reporting, and other requirements listed below. [20.6.2.3107 NMAC]
15.	<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 following documents:</p> <ol style="list-style-type: none"> <li>a) American Public Health Association, Standard Methods for the Examination of Water and Wastewater (18th, 19th or current);</li> <li>b) U.S. Environmental Protection Agency, Methods for Chemical Analysis of Water and Waste;</li> <li>c) U.S. Geological Survey, Techniques for Water Resources Investigations of the U.S. Geological Survey;</li> <li>d) American Society for Testing and Materials, Annual Book of ASTM Standards, Part 31. Water;</li> <li>e) U.S. Geological Survey, et al., National Handbook of Recommended Methods for Water Data Acquisition; or</li> <li>f) Methods of Soil Analysis: Part 1. Physical and Mineralogical Methods, 1986 edition, Methods of Soil Analysis: Part 2. Microbiological and Biochemical Properties, 1994 edition, and Methods of Soil Analysis: Part 3. Chemical Methods, 1996 edition, published by the American Society of Agronomy.</li> </ol> <p>[20.6.2.3107.B NMAC]</p>
16.	<p>The permittee shall submit quarterly monitoring reports to NMED for the most recently completed quarterly period by the 1<sup>st</sup> of February, May, August and November each year.</p> <p>Quarterly monitoring shall be performed during the following periods:</p> <ul style="list-style-type: none"> <li>• January 1<sup>st</sup> through March 31<sup>st</sup> (first quarter) – <b>due by May 1<sup>st</sup></b>;</li> <li>• April 1<sup>st</sup> through June 30<sup>th</sup> (second quarter) – <b>due by August 1<sup>st</sup></b>;</li> <li>• July 1<sup>st</sup> through September 30<sup>th</sup> (third quarter) – <b>due by November 1<sup>st</sup></b>; and</li> <li>• October 1<sup>st</sup> through December 31<sup>st</sup> (fourth quarter) – <b>due by February 1<sup>st</sup></b>.</li> </ul> <p>Monitoring requirements detailed in this Discharge Permit are summarized on the sheet titled <i>Summary of Required Actions, Monitoring and Reporting</i>. [20.6.2.3107 NMAC]</p>
17.	<p>The permittee shall estimate the volume of wastewater discharged monthly to the wastewater treatment system and motel/laundry septic tank leachfield system by recording the monthly meter readings for the facility's water supply and calculating the monthly water usage. The permittee shall make note of any significant uses of the water during each month, such as irrigation or evaporative cooling, that do not contribute to the wastewater treatment system. The monthly meter readings, calculated water usage, notes and estimated volume of wastewater discharged shall be submitted to NMED in the quarterly monitoring reports. The water supply meter shall be kept operational at all times. [20.6.2.3107.A(1) NMAC, 20.6.2.3109.H(1) NMAC]</p>

18.	<p>Within 90 days of the effective date of this Discharge Permit (by DATE), the permittee shall install three new monitoring wells. The permittee shall install:</p> <ul style="list-style-type: none"> <li>• One monitoring well (MW-1) hydrologically upgradient of the entire facility (at least 100 feet southwest of the 5,100 ft<sup>2</sup> low pressure dose disposal field connected to the Orenco treatment system),</li> <li>• One monitoring well (MW-2) located 20 to 50 feet hydrologically downgradient of the 5,100 ft<sup>2</sup> low pressure dose disposal field connected to the Orenco treatment system, and</li> <li>• One monitoring well (MW-3) located 20 to 50 feet hydrologically downgradient of the 1,050 ft<sup>2</sup> leachfield connected to the septic tank from the motel/laundry building.</li> </ul> <p>All monitoring well locations shall be approved by NMED prior to installation. The wells shall be completed in accordance with the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.0, July 2008. Construction and lithologic logs shall be submitted to NMED within 30 days of well completion. [20.6.2.3107 NMAC]</p>
19.	<p>Following well development and no more than five days after installation of the new monitoring wells required by this Discharge Permit, the permittee shall sample ground water in the new wells and analyze the samples for NO<sub>3</sub>-N, TKN, Cl, and TDS. The permittee shall sample:</p> <ul style="list-style-type: none"> <li>• MW-1, intended to be located hydrologically upgradient of the facility (at least 100 feet southwest of the 5,100 ft<sup>2</sup> low pressure dose disposal field connected to the Orenco treatment system);</li> <li>• MW-2, intended to be located hydrologically downgradient of 5,100 ft<sup>2</sup> low pressure dose disposal field connected to the Orenco treatment system; and</li> <li>• MW-3, intended to be located hydrologically downgradient of the 1,050 ft<sup>2</sup> leachfield connected to the septic tank from the motel/laundry building.</li> </ul> <p>Ground water sample collection, preservation, transport and analysis shall be performed according to the following procedure:</p> <ol style="list-style-type: none"> <li>a) measure the depth-to-ground water from the top of well casing to the nearest hundredth of a foot;</li> <li>b) purge three well volumes of water from the well prior to sample collection;</li> <li>c) obtain samples from the well for analysis;</li> <li>d) properly prepare, preserve and transport samples; and</li> <li>e) analyze samples in accordance with the methods authorized in this Discharge Permit.</li> </ol> <p>Depth-to-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 within 45 days of the installation of the monitoring wells. [20.6.2.3107 NMAC]</p>
20.	<p>Within 120 days of the effective date of this Discharge Permit (by DATE), the permittee shall survey all wells approved by NMED for Discharge Permit monitoring purposes to a U.S. Geological Survey (USGS) or other permanent benchmark. Survey data shall include northing, easting and elevation to the nearest hundredth of a foot or in accordance with the</p>

	<p>"Minimum Standards for Surveying in New Mexico" (12.8.2 NMAC). A survey elevation shall be established at the top-of-casing, with a permanent marking indicating the point of survey. The survey shall be completed and certified by a licensed New Mexico professional surveyor. Depth-to-water shall be measured to the nearest hundredth of a foot in all surveyed wells, and the data shall be used to develop a map showing the location of all monitoring wells and the direction and gradient of ground water flow at the facility. The data and map of ground water flow direction at the facility shall be submitted to NMED within 30 days of survey completion. [20.6.2.3107 NMAC]</p>
21.	<p>The permittee shall perform quarterly ground water sampling in three monitoring wells and analyze the samples for NO<sub>3</sub>-N, TKN, Cl, and TDS. The permittee shall sample:</p> <ul style="list-style-type: none"> <li>• MW-1, intended to be located hydrologically upgradient of the facility (at least 100 feet southwest of the 5,100 ft<sup>2</sup> low pressure dose disposal field connected to the Orenco treatment system);</li> <li>• MW-2, intended to be located hydrologically downgradient of the 5,100 ft<sup>2</sup> low pressure dose disposal field; and</li> <li>• MW-3, intended to be located hydrologically downgradient of the 1,050 ft<sup>2</sup> leachfield connected to the septic tank from the motel/laundry building.</li> </ul> <p>Ground water sample collection, preservation, transport and analysis shall be performed according to the following procedure:</p> <ol style="list-style-type: none"> <li>a) measure the depth-to-ground water from the top of well casing to the nearest hundredth of a foot;</li> <li>b) purge three well volumes of water from the well prior to sample collection;</li> <li>c) obtain samples from the well for analysis;</li> <li>d) properly prepare, preserve and transport samples; and</li> <li>e) analyze samples in accordance with the methods authorized in this Discharge Permit.</li> </ol> <p>Depth-to-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. [20.6.2.3107 NMAC]</p>
22.	<p>The permittee shall develop a ground water elevation contour map on a quarterly basis using the monitoring well survey data and quarterly depth-to-water measurements required by this Discharge Permit. The ground water elevation contour map shall depict the ground water flow direction based on the ground water elevation contours. The data and ground water elevation contour maps shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]</p>
23.	<p>The permittee shall sample treated wastewater from the Orenco treatment system dosing tank on a quarterly basis and analyze the samples for TKN, NO<sub>3</sub>-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. [20.6.2.3107 NMAC]</p>
24.	<p>The permittee shall sample wastewater from the motel/laundry building septic tank on an annual basis and analyze the samples for TKN, 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 monitoring</p>

	report due by February 1 of each year. [20.6.2.3107 NMAC]
25.	The permittee shall inspect the grease interceptor on a quarterly basis and pump it as needed. Inspection records shall be kept on-site. Pumping invoices shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3109 NMAC]
26.	The permittee shall inspect the lift stations on a quarterly basis, and clean them as needed. The inspection and cleaning records shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107 NMAC]
27.	The permittee shall visually inspect the area above the 5,100 ft <sup>2</sup> low pressure dose disposal field and the 1,050 ft <sup>2</sup> leachfield semi-annually to ensure proper maintenance. Any conditions that indicate damage to the low pressure dose disposal field or the leachfield shall be corrected. Such conditions include, but are not limited to erosion damage, animal activity/damage, woody shrubs, or evidence of seepage. The permittee shall keep a log of the inspection findings and repairs made. [20.6.2.3107 NMAC]
28.	When the water level in the RV space holding tank reaches $\frac{3}{4}$ of the total depth of the tank and/or the alarm is activated, the permittee shall have the contents of the tank pumped by a licensed hauler. The holding tank pumping invoices shall be submitted to NMED in the quarterly monitoring reports. [20.6.2.3107]
29.	The permittee shall log RV site usage on a daily basis. A summary of the log shall be submitted in the quarterly monitoring reports. [20.6.2.3107 NMAC]
30.	Once prior to the expiration date of this Discharge Permit, NMED shall have the option to require the permittee to temporarily remove the dedicated pump (if present) from each monitoring well to provide access for a complete well inspection by NMED personnel. NMED shall establish the inspection date and provide at least 60 days notice to the permittee by certified mail. Dedicated pumps shall be removed at least 48 hours prior to NMED inspection to allow adequate settling time for sediment agitated from pump removal. [20.6.2.3107 NMAC]

### CONTINGENCY PLAN

#	Terms and Conditions
31.	In the event that monitoring indicates ground water standards are violated during the term of this Discharge Permit, upon closure of the facility or during post-closure monitoring, the permittee shall collect a confirmatory sample from the monitoring well within 15 days to confirm the initial sampling results. Within 15 days of confirmation of ground water contamination, the permittee shall submit to NMED a corrective action plan that proposes measures to mitigate damage from the discharge including, at a minimum, source control measures and an implementation schedule. The permittee may be required to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC, if the corrective action plan will not result in compliance with the standards and requirements set forth in Section 20.6.2.4103 NMAC within 180 days of confirmation of ground water contamination. [20.6.2.1203 NMAC, 20.6.2.4105.A(8) NMAC]
32.	In the event of a spill or release that is not authorized under this Discharge Permit, the permittee shall initiate the notifications and corrective actions as required in Section 20.6.2.1203 NMAC. The permittee shall take immediate corrective action to contain and remove or mitigate the damage caused by the discharge. Within 24 hours after discovery of

	<p>the discharge, the permittee shall verbally notify NMED and provide the information required by Paragraph (1) of Subsection A of 20.6.2.1203 NMAC. Within 7 days of discovering the discharge, the permittee shall submit a written report to NMED verifying the oral notification and providing any additional information or changes. The permittee shall submit a corrective action report within 15 days after discovery of the discharge. [20.6.2.1203 NMAC]</p>
33.	<p>In the event that analytical results of a quarterly treated wastewater sample exceed the total nitrogen limitation set in this Discharge Permit, the permittee shall analyze another sample within 15 days to confirm the initial results. Upon confirmation that the limitation is being exceeded, the permittee shall enact the following contingency plan:</p> <ol style="list-style-type: none"> <li>NMED shall be notified immediately that the contingency plan is being enacted.</li> <li>Wastewater sampling and analysis shall be done on a monthly basis.</li> <li>The permittee shall examine the operation and maintenance log, required under the Record Keeping section of this permit, for improper operational procedures. The permittee shall also conduct a physical inspection of the treatment system to detect abnormalities. Any abnormalities discovered shall be corrected.</li> <li>If analytical results from wastewater sampling continue to exceed the limitation, the permittee shall submit a corrective action plan for NMED approval to modify operational procedures and/or upgrade the treatment process to achieve the effluent limit. The plan shall be submitted within 90 days of the original confirmation of exceedance of the effluent limitation. The corrective action plan shall be implemented immediately upon NMED approval.</li> </ol> <p>When analytical results from three consecutive months of wastewater sampling do not exceed the limitation, the permittee shall return to quarterly monitoring. [20.6.2.3107.A(10) NMAC]</p>
34.	<p>In the event that information available to NMED indicates that a well(s) is not appropriately constructed to effectively monitor ground water quality, contains insufficient water to allow the collection of representative ground water samples, or is not completed in a manner that is protective of ground water quality, the permittee shall install a replacement well(s) within 90 days of notification from NMED. 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 1.0, July 2008. Construction and lithologic logs shall be submitted to NMED within 30 days of well completion.</p> <p>Upon completion of the replacement monitoring well(s), the monitoring well(s) requiring replacement shall be properly plugged and abandoned. The well(s) shall be plugged and abandoned in accordance with the abandonment details in the attachment titled <i>Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions</i>, Revision 1.0, July 2008, and any applicable local, state, and federal regulations. Documentation describing the plugging and abandonment procedures, including photographic documentation, shall be submitted to NMED within 30 days of completed well abandonment. [20.6.2.3107 NMAC]</p>
35.	<p>In the event that ground water flow information obtained pursuant to this Discharge Permit indicates that a monitoring well(s) was not installed hydrologically downgradient of the</p>

	intended discharge location(s), the permittee shall install a replacement well(s) within 90 days of notification from NMED. The 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 1.0, July 2008. Construction and lithologic logs shall be submitted to NMED within 30 days of well completion. [20.6.2.3107 NMAC]
36.	<p>In the event that water-tightness testing of the septic tank(s) reveals that a unit is not water-tight, or should inspection reveal damage to the unit(s) that could result in structural failure, the permittee shall enact the following corrective actions upon notification from NMED:</p> <p>a) Within 90 days of notification from NMED, repair or replace the unit(s). If notified to do so by NMED, submit plans and specification for the proposed repair or replacement, certified by a licensed New Mexico professional engineer, to NMED for approval prior to construction.</p> <p>b) Within 30 days of repair or replacement of the unit(s), 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 tank interior and water tightness test results. If notified to do so by NMED, submit record drawings, certified by a licensed New Mexico professional engineer, which detail the final, actual construction of the unit(s).</p> <p>[20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p>
37.	<p>In the event that an inspection of the 5,100 ft<sup>2</sup> low pressure dose disposal field and/or the 1,050 ft<sup>2</sup> leachfield reveals failure, the permittee shall enact the following contingency plan:</p> <p>a) Within 24 hours of the discovered failure, the permittee shall notify NMED of the failure and public access to the area shall be restricted.</p> <p>b) The permittee shall conduct a physical inspection of the treatment and disposal system to identify additional failures.</p> <p>c) The permittee shall submit a corrective action plan for NMED approval to address the failure and propose methods of correction. The corrective action plan shall be submitted within 30 days of the discovered failure and shall be implemented immediately upon NMED approval.</p> <p>[20.6.2.3107 NMAC, 20.6.2.3109 NMAC]</p>
38.	<p>In the event NMED or the permittee identifies any other failures of the Discharge Permit or system not specifically noted herein, NMED may require the permittee to develop for NMED approval contingency plans and schedules to cope with the failures.</p> <p>[20.6.2.3107.A(10) NMAC]</p>

### CLOSURE PLAN

#	Terms and Conditions
39.	<p>Within 180 days of the effective date of this Discharge Permit (by [date]), the permittee shall remove or plug all lines leading from septic tanks to the existing leachfields that are to be abandoned and replaced with the Orenco AX100 wastewater treatment system and the 5,100 ft<sup>2</sup> low pressure dose disposal field. Documentation describing the removal or</p>

	plugging of lines and leachfield abandonment procedures, including photographic documentation, shall be submitted to NMED within 30 days of completion.
40.	Within 180 days of the effective date of this Discharge Permit (by [date]), the permittee shall remove or demolish the old RV park septic tank, remove or plug all lines leading from the thirteen old RV sites that are to be abandoned to the old RV septic tank and remove or plug all lines leading from the old RV septic tank to the old RV leachfield which is to be abandoned. Documentation describing the removal or plugging of lines and leachfield abandonment procedures, including photo documentation, shall be submitted to NMED within 30 days of completion
41.	<p>Upon closure of the facility, the permittee shall perform the following closure measures:</p> <ul style="list-style-type: none"> <li>a) Complete the installation of all monitoring wells as required by this Discharge Permit.</li> <li>b) Remove or plug all lines leading to the treatment system, septic tank system and disposal areas so that a discharge can no longer occur.</li> <li>c) Drain and/or evaporate all liquids from all treatment units and septic tank systems and dispose of all sludge in accordance with all local, state, and federal (40 CFR Part 503) regulations.</li> <li>d) Remove or demolish all tanks and re-grade area with clean fill to blend with surface topography and prevent ponding.</li> <li>e) Continue ground water monitoring as required by this Discharge Permit for two years after closure to confirm the absence of ground water contamination. If monitoring results show that the ground water standards in Section 20.6.2.3103 NMAC are being violated, the permittee shall implement the contingency plan required by this Discharge Permit.</li> <li>f) 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 1.0, July 2008.</li> </ul> <p>When all post-closure requirements have been met, the permittee may request to terminate the Discharge Permit. [20.6.2.3107.A(11) NMAC]</p>

**GENERAL TERMS AND CONDITIONS**

#	Terms and Conditions
42.	<p><b>RECORD KEEPING</b> - The permittee shall maintain at its facility a written record of all 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:</p> <ul style="list-style-type: none"> <li>a) The dates, exact place and times of sampling or field measurements;</li> <li>b) The name and job title of the individuals who performed each sample collection or field measurement;</li> <li>c) The date of the analysis of each sample;</li> <li>d) The name and address of the laboratory and the name and job title of the person that performed the analysis of each sample;</li> <li>e) The analytical technique or method used to analyze each sample or take each field measurement;</li> </ul>

	<p>f) The results of each analysis or field measurement, including raw data;</p> <p>g) The results of any split sampling, spikes or repeat sampling; and</p> <p>h) A description of the quality assurance and quality control procedures used.</p> <p>[20.6.2.3107.A NMAC]</p>
43.	<p>RECORD KEEPING - The permittee shall maintain a written record of any spills, seeps, and/or leaks of effluent, and of leachate and/or process fluids not authorized by this Discharge Permit. [20.6.2.3107.A NMAC]</p>
44.	<p>RECORD KEEPING - The permittee shall maintain a written record of the operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater; to measure flow rates, to monitor water quality, or to collect other data required by this Discharge Permit. This record shall include repair, replacement or calibration of any monitoring equipment and repair or replacement of any equipment used in the permittee's waste or wastewater treatment and disposal system. [20.6.2.3107.A NMAC]</p>
45.	<p>RECORD KEEPING - The permittee shall maintain a written record of the amount of wastewater, effluent, leachate or other wastes discharged pursuant to this Discharge Permit. [20.6.2.3107.A NMAC]</p>
46.	<p>RECORD KEEPING - The permittee shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Discharge Permit, and records of all data used to complete the application for this Discharge Permit for a period of at least five years from the date of the sample collection, measurement, report or application. This period may be extended by request of the Secretary at any time. [20.6.2.3107.A NMAC]</p>
47.	<p>INSPECTION and ENTRY - The permittee shall allow the Secretary or an authorized representative, upon the presentation of credentials, to:</p> <p>a) Enter at regular business hours or at other reasonable times upon the permittee's premises or other location where records must be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.</p> <p>b) Inspect and copy, during regular business hours or at other reasonable times, any records required to be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.</p> <p>c) Inspect, at regular business hours or at other reasonable times, any facility, equipment (including monitoring and control equipment or treatment works), practices or operations regulated or required under this Discharge Permit, or under any federal or WQCC regulation.</p> <p>d) Sample or monitor, at reasonable times for the purpose of assuring compliance with this Discharge Permit or as otherwise authorized by the WQA, any effluent, water contaminant, or receiving water at any location before or after discharge.</p> <p>[20.6.2.3107.D NMAC, 74-6-9(B) &amp; (E) WQA]</p>
48.	<p>INSPECTION and ENTRY - Nothing in this Discharge Permit shall be construed as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other applicable law or regulation. [20.6.2.3107 NMAC, 74-6-9(B) &amp; (E) WQA]</p>
49.	<p>DUTY to PROVIDE INFORMATION - The permittee shall furnish to NMED, within a reasonable time, any documents or other information which it may request to determine</p>

	whether cause exists for modifying, terminating and/or renewing this Discharge Permit or to determine compliance with this Discharge Permit. The permittee shall also furnish to NMED, upon request, copies of documents required to be kept by this Discharge Permit. [20.6.2.3107.D NMAC, 74-6-9(B) & (E) WQA]
50.	SPILLS, LEAKS, and OTHER UNAUTHORIZED DISCHARGES - This Discharge Permit authorizes only those discharges specified herein. Any unauthorized discharges violate Section 20.6.2.3104 NMAC and must be reported to NMED and remediated as required by Section 20.6.2.1203 NMAC. [20.6.2.1203 NMAC]
51.	MODIFICATIONS and/or AMENDMENTS - The permittee shall notify NMED of any changes to the permittee's wastewater treatment and disposal system, including any changes in the wastewater flow rate or the volume of wastewater storage, or of any other changes to operations or processes that would result in any significant change in the discharge of water contaminants. The permittee shall obtain NMED's approval, as a modification to this Discharge Permit pursuant to Subsections E, F, or G of 20.6.2.3109 NMAC, prior to any increase in the quantity discharged, or any increase in the concentration of water contaminants discharged, above those levels approved in this Discharge Permit. [20.6.2.3107.C NMAC]
52.	PLANS and SPECIFICATIONS - The permittee shall file plans and specifications with NMED for the construction of a wastewater system and for proposed changes that will change substantially the quantity or quality of the discharge from the system. The permittee shall file plans and specifications prior to the commencement of construction. Changes to the wastewater system having a minor effect on the character of the discharge shall be reported as of January 1 and June 30 of each year to NMED. [20.6.2.1202 NMAC]
53.	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. [74-6-10 WQA, 74-6-10.1 WQA]
54.	CRIMINAL PENALTIES – Any person who knowingly violates or knowingly causes or allows another person to: <ol style="list-style-type: none"> <li>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;</li> <li>2) falsify, tamper with or render inaccurate any monitoring device, method or record required to be maintained under the WQA; or</li> </ol>

	3) fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation, is subject to felony charges and shall be sentenced in accordance with the provisions of Section 31-18-15 NMSA 1978. [74-6-10.2(A-F) WQA]
55.	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. [20.6.2 NMAC]
56.	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 (30) days of the receipt of this Discharge Permit. Unless a timely petition for review is made, the decision of NMED shall be final and not subject to judicial review. [74-6-5(O) WQA]
57.	TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this permitted facility or any portion thereof, the permittee shall notify the proposed transferee in writing of the existence of this Discharge Permit and include a copy of this Discharge Permit with the notice. The permittee shall 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. [20.6.2.3111 NMAC]
58.	TERM - Pursuant to WQA 74-6-5(I) and Subsection H of 20.6.2.3109 NMAC, the term of this Discharge Permit is five years from its effective date. To renew this Discharge Permit, the permittee must submit an application for renewal at least 180 days before the termination date. [20.6.2.3109.H NMAC, 74-6-5(I) WQA]
59.	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. An approved Discharge Permit shall be suspended or terminated if the facility fails to remit an installment payment by its due date. [20.6.2.3114.F NMAC, 74-6-5(K) WQA]

EFFECTIVE DATE: effective date

EXPIRATION DATE: expiration date

WILLIAM C. OLSON  
 Chief, Ground Water Quality Bureau  
 New Mexico Environment Department