

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

AUTHORIZATION TO DISCHARGE

In compliance with Chapter 445A of the Nevada Revised Statutes,

**Carver's Smoky Valley RV & Mobile Home Park
HC 60 Box 53708
Round Mountain, NV 89045**

Is authorized to discharge from a facility located at:

**Carver's Smoky Valley RV & Mobile Home Park
State Route 376, 8 miles NW of Round Mountain, Nye County
Latitude: 38° 47' 16"N, Longitude: 117° 10' 36"W
Township 11N, Range 43E, Section 29**

To receiving waters named:

GROUNDWATER OF THE STATE VIA PERCOLATION

In accordance with effluent limitations, monitoring requirements, and other conditions set forth in Part I, II and III hereof.

EFFECTIVE DATE OF PERMIT:

Tuesday December 18th, 2008

**EXPIRATION DATE OF PERMIT (midnight):
2013**

Wednesday December 18th,

Signed this 18th day of November, 2008.



Alexi Lanza – Staff Engineer
Nevada Division of Environmental Protection



Bureau of Water Pollution Control– Permitting Branch
PART I

I.A. EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS AND CONDITIONS

I.A.1. During the period beginning on the effective date of this permit, and lasting until the permit expires, the Permittee is authorized to discharge to the groundwater secondary-treated effluent via percolation in ponds 1 & 2.

Samples taken in compliance with the monitoring requirements specified below shall be taken at the following location(s):

Influent: Inlet to Septic Tank Compartment 1;

Effluent: Flow Measurement Discharge Weir
 TSS, BOD5: Effluent Pond
 Residual Chlorine: After disinfection, at discharge to
 Effluent Pond.

The discharge shall be limited and monitored by the Permittee as specified below in Table-1:

Table 1: Plant Discharge Limitations

PARAMETER		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Influent	BOD ₅ , mg/L	Monitor & Report		Continuous	Totalizing Flow Meter
	Total Suspended Solids (TSS), mg/L	Monitor & Report		Quarterly	Discrete
Effluent	Flow (gallons per day)	34,500	---	Quarterly	Discrete
	BOD ₅ , mg/L	30	45	Quarterly	Discrete
	TSS, mg/L	90		Quarterly	Discrete
	pH, Std. Units	Between 6.0 & 9.0		Quarterly	Discrete
	Free Chlorine, mg/L	≥ 0.1		Quarterly	Discrete
Septic Tank Sludge Depth, Compartments #1-3, (inches of sludge)		Monitor & Report ¹		Quarterly	Tank Observation & Measurement
Operation Time, Aerators 1-6, Minutes		Monitor & Report		Monthly	Discrete
Number of Chlorination Tablets Used		Monitor & Report		Weekly	Discrete
Number of Active Connections		Monitor & Report		Monthly	Observation
Pond Depth, feet		Monitor & Report		Monthly	Staff Gage

Operator's Dated Log (Photocopies of appropriate pages)	Monitor & Report	Monthly	Photocopies
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- Sludge removal required when sludge depth in any compartment \geq 24 inches.

Table 2: Groundwater Monitoring (MW-1 & MW-2)¹

PARAMETER	DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS	
		Measurement Frequency	Sample Type
TDS, mg/L	Monitor & Report	Quarterly	Discrete
Chlorides, mg/L	Monitor & Report	Quarterly	Discrete
Nitrate as N, mg/L	Monitor & Report	Quarterly	Discrete
Total Nitrogen as N, mg/L	10.0 ²	Quarterly	Discrete
Depth to Groundwater, ft	Monitor & Report	Quarterly	Field Measurement
Groundwater Elevation, ft AMSL	Monitor & Report	Quarterly	Field Measurement

- Groundwater samples shall be taken only after purging at least three (3) well volumes of groundwater from each monitoring well.
- See Part I.A.15 for groundwater nitrogen limits.

- I.A.2. There shall be no objectionable odors from the collection system or wastewater treatment and disposal facilities.
- I.A.3. There shall be no discharge from the collection system or treatment and disposal facilities except as authorized by this permit.
- I.A.4. There shall be no discharge of substances that would cause an exceedance of drinking water standards in the groundwater.
- I.A.5. All solid waste screening and sewage sludge shall be disposed or reused in a manner approved by the Division and the County. Facilities that generate and dispose or prepare for reuse, sewage sludge shall monitor the concentrations of arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium and zinc and report in mg/dry Kg of sludge as outlined below.

Dry Sludge Disposal Rate (tons/year)	Monitoring Frequency
>0 - <320	Yearly
\geq 320 - <1654	Quarterly
\geq 1654 – 16538	Every two months
\geq 16538	Monthly

A monitoring report, which includes the analytical data, volume disposed, facility name, address, phone number and contact where sludge was disposed or reused shall be submitted with the quarterly Discharge Monitoring Report (DMR). Facilities, which sample annually, shall submit the information annually with the 4th Quarter DMR.

- I.A.6. The wastewater treatment and disposal facilities shall be adequately posted and properly

fenced.

- I.A.7. The collection, treatment and disposal facilities shall be constructed in conformance with plans approved by the Division. The plans must be approved by the Division prior to the start of construction. All changes to the approved plans must be approved by the Division.
- I.A.8. The facility shall be operated in accordance with the Division approved O&M Manual.
- I.A.9. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- I.A.10. The Permittee shall remit an annual review and services fee in accordance with NAC 445A.232 starting **July 1, 2009** and every year thereafter until the permit is terminated.
- I.A.11. The treatment facility shall be operated by a Nevada Certified Class I (or higher) Operator. The Discharge Monitoring Reports (DMRs) must be signed by the facility's highest ranking certified operator. The first DMR submitted under this permit must include the written designation of the certified operator (required by Part III A.2) as the authorized representative to sign the DMRs. If the certified operator in responsible charge changes, a new designation letter must be submitted.
- I.A.12. An operations logbook, including the name of the operator, date, time, and general condition of the wastewater treatment facility must be kept and maintained on the site premises. The operator shall inspect the site at the frequency prescribed in the O&M Manual.
- I.A.13. Ponds 1 & 2 shall have a staff gauge installed in them to indicate the depth of liquid. The water level in each pond shall be measured monthly and recorded in the operations logbook maintained at the site.
- I.A.14. A minimum freeboard of 2 ft. shall be maintained in each of ponds #1 & #2.
- I.A.15. The Permittee shall sample the groundwater in MW-1 and MW-2 on a quarterly basis with a discrete sample and analyze for TDS, chlorides, nitrate as nitrogen, total nitrogen, depth to groundwater, and groundwater elevation, submitted in accordance with Part I.B.2, of this permit. If the Total Nitrogen level in any well increases to 7.0 mg/L, an alternative method of effluent treatment and/or disposal, which reduces the nitrogen loading into the groundwater, shall be selected and submitted for Division review and approval. If the Total Nitrogen level in any well increases to 9.0 mg/L, the Permittee must begin construction of the alternative method of effluent treatment and/or disposal. If the Total Nitrogen level in any well increases to 10.0 mg/L, the Permittee shall immediately begin operation of the Division approved alternative method of effluent treatment and disposal.
- I.A.16. **Schedule of Compliance**
The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications, which the Administrator may make in approving the schedule of compliance. All compliance deliverables shall be sent to the attention of the Compliance Coordinator, Bureau of Water Pollution Control (address in section II.B.2 subsection b.)

- a. **By February 15th, 2009**, the Permittee shall submit a letter designating a State of Nevada Certified Class I (or higher) Wastewater Treatment Operator, who will be responsible for supervising treatment plant operations and signing the quarterly DMRs. A current copy of the operator's certification shall be included with this designation.
- b. **By February 15th, 2009**, the Permittee shall submit an Operations and Maintenance (O&M) Manual prepared in accordance with the Division's WTS-2 guidance: *Minimum Information Required for an Operations and Maintenance Manual*.
- c. **By February 15th, 2009**, the Permittee shall have the depth of sludge in each septic tank compartment measured and reported by a State of Nevada certified septage tank service.
- d. **By February 15th, 2009**, the Permittee shall submit photographic documentation of repair of fencing around the facility ponds and installation of appropriate signage.

I.B. MONITORING AND REPORTING

I.B.1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. Analyses shall be performed by a State of Nevada certified laboratory. Results from this lab must accompany the Discharge Monitoring Report.

I.B.2. Reporting

a. Annual Report

- i. The fourth quarter report shall contain plots, of concentration (y-axis) versus date (x-axis) for flow, BOD₅, TSS, pH, chlorine residual and each quarterly analyzed groundwater constituent from MW-1 and MW-2. The plots shall include data from the preceding five years, if available. Any data point from the current year that is greater than the limits in Parts I.A.1. must be explained by a narrative.
- ii. Color photograph(s) of ponds #1 & #2, labeled and dated, shall be submitted to this office annually as part of the 4th quarter DMR.

b. Quarterly Reporting

Monitoring results obtained during the previous three (3) months shall be summarized for each month and reported on a Discharge Monitoring Report (DMR) Form received in this office no later than the 28th day of the month following the completed reporting period. The first report is due on **October 28, 2008**. An original signed copy of these, and all other reports required herein, shall be submitted to the State at the following address:

**Department of Conservation and Natural Resources
Division of Environmental Protection**

**Bureau of Water Pollution Control
ATTN: Compliance Coordinator
901 S. Stewart Street, Suite 4001
Carson City, Nevada 89701**

I.B.3. Definitions

- a. The "30-day average discharge" means the total discharge during a month divided by the number of samples in the period that the facility was discharging. Where less than daily sampling is required by this permit, the 30-day average discharge shall be determined by the summation of all the measured discharges divided by the number of samples during the period when the measurements were made.
- b. The "daily maximum" is the highest measurement during the monitoring period.
- c. The "30-day average concentration", other than for fecal coliform bacteria, means the arithmetic mean of measurements made during a month. The "30-day average concentration" for fecal coliform bacteria means the geometric mean of measurements made during a month. The geometric mean is the " n^{th} " root of the product of " n " numbers. Geometric mean calculations where there are non-detect results for fecal coliform shall use one-half the detection limit as the value for the non-detect results.
- d. A "discrete" sample means any individual sample collected in less than 15 minutes.

I.B.4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations (40 CFR, Part 136) published pursuant to Section 304(h) of the Clean Water Act, under which such procedures may be required unless other procedures are approved by the Division.

I.B.5. Recording the Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. the exact place, date, and time of sampling;
- b. the dates the analyses were performed;
- c. the person(s) who performed the analyses;
- d. the analytical techniques or methods used; and
- e. the results of all required analyses.

I.B.6. Additional Monitoring by Permittee

If the Permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

I.B.7. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years, or longer if required by the Administrator.

I.B.8. Modification of Monitoring Frequency and Sample Type

After considering monitoring data, stream flow, discharge flow and receiving water conditions, the Division may, for just cause, modify the monitoring frequency and/or sample type by issuing an order to the Permittee.

I.B.9. All laboratory analyses conducted in accordance with this discharge permit must have detection at or below the permit limits.

PART II**II.A. MANAGEMENT REQUIREMENTS****II.A.1. Change in Discharge**

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or treatment modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Any changes to the permitted treatment facility must comply with Nevada Administrative Code NAC 445A.283 to 445A.285. Pursuant to NAC 445A.263, the permit may be modified to specify and limit any pollutants not previously limited.

II.A.2. Facilities Operation

The Permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities, collection systems or pump stations installed or used by the Permittee to achieve compliance with the terms and conditions of this permit.

II.A.3. Adverse Impact

The Permittee shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

II.A.4. Noncompliance, Unauthorized Discharge, Bypassing and Upset

a. Any diversion, bypass, spill, overflow or discharge of treated or untreated wastewater from wastewater treatment or conveyance facilities under the control of the permittee is prohibited except as authorized by this permit. In the event the permittee has knowledge that a diversion, bypass, spill, overflow or discharge not

- authorized by this permit is probable, the permittee shall notify the Division immediately.
- b. The Permittee shall notify the Division within twenty-four (24) hours of any diversion, bypass, spill, upset, overflow or release of treated or untreated discharge other than that which is authorized by the permit. A written report shall be submitted to the Administrator within five (5) days of diversion, bypass, spill, overflow, upset or discharge, detailing the entire incident including:
 - i. time and date of discharge;
 - ii. exact location and estimated amount of discharge;
 - iii. flow path and any bodies of water which the discharge reached;
 - iv. the specific cause of the discharge; and
 - v. the preventive and/or corrective actions taken.
 - c. The following shall be included as information which must be reported within 24 hours: any unanticipated bypass which exceeds any effluent limitation in the permit; any upset which exceeds any effluent limitation in the permit; and violation of a limitation for any toxic pollutant or any pollutant identified as the method to control a toxic pollutant.
 - d. The Permittee shall report all instances of noncompliance not reported under Part II.A.4.b. at the time monitoring reports are submitted. The reports shall contain the information listed in Part II.A.4.b.
 - e. An "upset" means an incident in which there is unintentional and temporary noncompliance with the permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 - f. In selecting the appropriate enforcement option, the Division shall consider whether or not the noncompliance was the result of an upset.
 - g. The burden of proof is on the permittee to establish that an upset occurred. In order to establish that an upset occurred, the permittee must provide, in addition to the information required under paragraph II.A.4.b. above, properly signed contemporaneous logs or other documentary evidence that:
 - i. The facility was at the time being properly operated as required in paragraph II.A.2. above; and
 - ii. All reasonable steps were taken to minimize adverse impacts as required by paragraph II.A.3. above.

II.A.5. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of waste waters shall be disposed of in a manner such as to prevent any pollution from such materials from entering any navigable waters.

II.A.6. Safeguards to Electric Power Failure

In order to maintain compliance with the effluent limitations and prohibitions of this permit the permittee shall either:

- a. provide at the time of discharge an alternative power source sufficient to operate the wastewater control facilities; or
- b. halt or reduce all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

II.B. RESPONSIBILITIES**II.B.1. Right of Entry and Inspection**

The Permittee shall allow the Administrator and/or his authorized representatives, upon the presentation of credentials, to:

- a. Enter at reasonable times upon the Permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. Have access to and copy any records required to be kept under the terms and conditions of this permit;
- c. Have unrestricted access to employees and others for interviews during any onsite inspection or investigation conducted by the Division relating to the administration or enforcement of the provisions of the permit;
- d. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations required in this permit; and
- e. Perform any necessary sampling or monitoring to determine compliance with this permit at any location for any parameter.

II.B.2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the permittee shall notify the succeeding owner or controller of the existence of this permit, by letter, a copy of which shall be forwarded to the Administrator. ALL transfer of permits shall be approved by the Division.

II.B.3. Availability of Reports

Except for data determined to be confidential under NRS 445A.665, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of the Division. Effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as

provided for in NRS 445A.710.

II.B.4. Furnishing False Information and Tampering with Monitoring Devices

Any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan or other document filed or required to be maintained by the provisions of NRS 445A.300 to 445.730, inclusive, or by any permit, rule, regulation or order issued pursuant thereto, or who falsifies, tampers with or knowingly renders inaccurate any monitoring device or method required to be maintained under the provisions of NRS 445A.300 to 445A.730, inclusive, or by any permit, rule, regulation or order issued pursuant thereto, is guilty of a gross misdemeanor and shall be punished by a fine of not more than \$10,000 or by imprisonment. This penalty is in addition to any other penalties, civil or criminal, provided pursuant to NRS 445A.300 to 445A.730, inclusive.

II.B.5. Penalty for Violation of Permit Conditions

Nevada Revised Statutes NRS 445A.675 provides that any person who violates a permit condition is subject to administrative and judicial sanctions as outlined in NRS 445A.690 through 445A.705.

II.B.6. Permit Modification, Suspension or Revocation

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. violation of any terms or conditions of this permit;
- b. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

II.B.7. Toxic Pollutants

Notwithstanding Part II.B.6. above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under NAC 445A for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

II.B.8. Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Federal, State or local laws, regulations, or ordinances.

II.B.9. Property Rights

The issuance of this permit does not convey any property rights, in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

II.B.10. **Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provisions of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART III

III.A. **OTHER REQUIREMENTS**

III.A.1. **Reapplication**

If the Permittee desires to continue to discharge, he shall reapply not later than 180 days before this permit expires on the application forms then in use. The application shall be accompanied by the renewal application fee required by NAC 445A.232.

III.A.2. **Signatures required on application and reporting forms.**

- a. Application and reporting forms submitted to the department must be signed by one of the following:
 - i. A principal executive officer of the corporation (of at least the level of vice president) or his authorized representative who is responsible for the overall operation of the facility from which the discharge described in the application or reporting form originates; or
 - ii. A general partner of the partnership; or
 - iii. The proprietor of the sole proprietorship; or
 - iv. A principal executive officer, ranking elected official or other authorized employee of the municipal, state or other public facility.
- b. Each application must contain a certification by the person signing the application that he is familiar with the information provided, that to the best of his knowledge and belief the information is complete and accurate and that he has the authority to sign and execute the application.
- c. **Changes to Authorization.** If an authorization under paragraph b. of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph b. of this section must be submitted to the Division prior to or together with any reports, information, or applications to be signed by an authorized representative.

III.A.3. **Holding Pond Conditions**

If any wastewater from the permittee's facility is placed in ponds, such ponds shall be located and constructed so as to:

- a. contain with no discharge the once-in-twenty-five year 24 hour storm at said location;
- b. withstand with no discharge the once-in-one-hundred year flood of said location; and
- c. prevent escape of wastewater by leakage other than as authorized by this permit.

III.A.4. **Flow Rate Notification**

The Permittee shall notify the Administrator, by letter, not later than ninety (90) days after the 30-day average daily influent flow rate first equals or exceeds 85% of the design treatment capacity of the permittee's facility given in Part I.A. above. The letter shall include:

- a. The 30-day average daily influent flow rate;
- b. The maximum 24-hour flow rate during the 30-day period reported above and the date the maximum flow occurred;
- c. The Permittee's estimate of when the 30-day average influent flow rate will equal or exceed the design treatment capacity of the Permittee's facility;
- d. A status report on the treatment works which will outline but not be limited to past performance, remaining capacity of the limiting treatment and disposal units or sites, past operational problems and improvements instituted, modifications to the treatment works which are needed to attain the permitted flow rate due to changing site specific conditions or design criteria; and
- e. The Permittee's schedule of compliance to provide additional treatment capacity before the 30-day average daily influent flow rate equals the present design treatment capacity of the Permittee's facility.