

**Division of Environmental Protection**

**AUTHORIZATION TO DISCHARGE**

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

U.S.D.D., Department of the Army  
1 South Maine Avenue  
Hawthorne, Nevada 89415

is authorized to discharge backwash water from the Hawthorne Army Depot (HWAD) Water Treatment facility located

On HWAD approximately one half mile below (east of) the Black Beauty Reservoir in

Hawthorne, Nevada, 89415

Mineral County, Nevada

South Pond: Latitude: 38° 32' 44" N.; Longitude: 118° 41' 18" W.  
North Pond: Latitude: 38° 32' 45" N.; Longitude: 118° 41' 17" W.  
Section 13, T.8N., R.29E MDB&M

to receiving waters named


Groundwaters of the State of Nevada via two infiltration basins

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

This permit shall become effective on November 14, 2005.

This permit and the authorization to discharge shall expire at midnight, November 14, 2010.

Signed this 14<sup>th</sup> day of November, 2005.

  
Icyl C. Mulligan, MS ES  
Bureau of Water Pollution Control

Part I

A. EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS AND CONDITIONS

1. During the period beginning on the effective date of this permit, and lasting until the permit expires, the Permittee is authorized to discharge wastewater from the backwash operations of the HWAD potable Water Treatment Plant to two infiltration basins for disposal via percolation. (Outfall 001)

Samples taken in compliance with the monitoring requirements specified below shall be taken of the backwash water prior to discharge to the infiltration basins.

The discharge shall be monitored by the Permittee as specified below:

<u>PARAMETERS</u>	<u>DISCHARGE LIMITATIONS</u>	<u>MONITORING REQUIREMENTS</u>	
		<u>Measurement Frequency</u>	<u>Sample Type</u>
Number of Backwash Cycles/month:	Monitor and Report	Continuous	Record
Total Flow:	0.0495 MGD 30-day ave.	Monthly	Calculate <sup>1</sup>

Footnote:

- 1.) The total flow in gallons per month shall be calculated by multiplying the number of backwash cycles recorded in a log, by the calculated backwash flow per cycle. This information shall be reported quarterly, as required by this permit. See also Part I.A.12.
- I.A.2. There shall be no objectionable odors from the backwash collection facilities and the disposal area.
- I.A.3. There shall be no discharge of substances that would cause a violation of water quality standards of the State of Nevada.
- I.A.4. Any solids collected in the plant system shall be disposed of in a manner approved by the Division and the County.
- I.A.5. There shall be no discharge from the treatment or disposal area except as authorized by this permit.
- I.A.6. The treatment facility and its exposed components shall be posted. Access shall be controlled to protect the infiltration basins.

**Part I.A.**

- I.A.7. The backwash collection 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 backwash water management facilities shall be operated in accordance with the **Operations and Maintenance (O & M) Manual** which must be prepared by the Certified Water Treatment Plant Operator for the facility, and reviewed by the Hawthorne Utilities prior to submission to NDEP for review and approval.
- 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, 2006 and every year thereafter until the permit is terminated.
- I.A.11. 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 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. **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.

- a. The Permittee shall achieve compliance with the discharge flow monitoring upon issuance of the permit.
- b. The Permittee shall keep a log of the number of backwash cycles, and of the flow discharged to the infiltration basins in accordance with the permit requirements.
- c. A brief Operations and Maintenance Manual (O & M) for the backwash discharge management, and system components management is required to be submitted to NDEP by July 30, 2006. The document shall be prepared by the Certified Water Treatment Plant Operator for the facility, and reviewed by Hawthorne Utilities prior to submission to NDEP for review and approval.

**I.B. MONITORING AND REPORTING**

- I.B.1. Measurements taken as required herein shall be representative of the volume of the monitored discharge.

## Part I.B.

I.B.2. **Reporting**

Monitoring results for flow obtained during the previous three (3) months shall be summarized for each month and reported on a Discharge Monitoring Report 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 January 28, 2006. An original signed copy of these, and all other reports required herein, shall be submitted to the State at the following address:

Division of Environmental Protection  
Bureau of Water Pollution Control  
ATTN: Compliance Coordinator-Ms. Diana Silsby  
901 South Stewart Street, Suite 4001  
Carson City, Nevada 89701-5249

The O & M Manual shall be submitted to the above address in accordance with Part I.A.12.

I.B.3. The fourth quarter report shall contain a plot, of date (x-axis) versus quantity (y-axis) for FLOW. The plot shall include data from the preceding five years, if available. Any data point from the current year that is greater than previous years must be explained by a narrative.

I.B.4. **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 " $n^{\text{th}}$ " root of the product of " $n$ " numbers. Geometric mean calculations where there are non-detect results for fecal coliform shall use 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.

- e. For flow-rate measurements a "composite" sample means the arithmetic mean of no fewer than six individual measurements taken at equal time intervals for 24 hours, or for the duration of discharge, whichever is shorter.

For other than flow-rate a "composite" sample means a combination of no fewer than six individual flow-weighted samples obtained at equal time intervals for 24 hours, or for the duration of discharge, whichever is shorter. Flow-weighted sample means that the volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling.

#### 5. **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 Act, under which such procedures may be required unless other procedures are approved by the Division.

#### 6. **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.

#### 7. **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.

#### 8. **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.

## Part I.B.

9. **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.

10. **All laboratory analysis conducted in accordance with this discharge permit must have detection at or below the permit limits.****PART II****II.A. MANAGEMENT REQUIREMENTS**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.

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.

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 noncomplying discharge.

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 of Division immediately.

## Part II.A.4. Continued

- b. The Permittee shall notify the Division within twenty-four (24) hours of any diversion, bypass, spill, upset, overflow or discharge of treated or untreated sewage 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:
- (1) time and date of discharge;
  - (2) exact location and estimated amount of discharge;
  - (3) flow path and any bodies of water which the discharge reached;
  - (4) the specific cause of the discharge; and
  - (5) 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:

- (1) The facility was at the time being properly operated as required in paragraph II.A.2. above; and
- (2) All reasonable steps were taken to minimize adverse impacts as required by paragraph II.A.3. above.

## Part 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.

**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;
- 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****1. Right of Entry**

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

- a. to enter 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; and
- b. at reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to perform any necessary sampling to determine compliance with this permit or to sample any discharge.

**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.

**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. As required by the Act, 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.



## Part 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 445A.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 445.300 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.

**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.

**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.

**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 Section 307(a) of the Act 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.

**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.

Part 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.

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**

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.

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

a. Application and reporting forms submitted to the department must be signed by:

(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;

(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.

## Part III.A.2. Continued

- 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.

**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.