

OFFICE OF THE STATE ENGINEER  
STATE OF NEVADA

PERMIT NO. R-007

PERMIT

TO ESTABLISH AND OPERATE A  
PROJECT  
TO RECHARGE, STORE AND RECOVER  
UNDERGROUND WATER

PERMITEE: City of North Las Vegas  
2200 Civic Center Drive  
North Las Vegas, Nevada 89030

SOURCE OF WATER: Colorado River

ANNUAL QUANTITY: 3,500 Acre Feet

LOCATION OF PROPOSED  
PROJECT/RECHARGE WELLS:

1) West Cheyenne Well No. 2, located within the NW 1/4 NE 1/4 Section 18, T.20S., R.61E., M.D.B.&M., or at a point from which the North 1/4 corner of said Section 18 bears N. 39° 58' 05" W., a distance of 940.15 feet.

2) Gowan Well No. 1, located within the NE 1/4 NW 1/4 Section 18, T.20S., R.62E., M.D.B.&M., or at a point bearing S. 65° 44' 20" W., a distance of 946.80 feet from the N 1/4 corner of said Section 18.

LOCATION OF RECOVERY WELLS:

The recovery wells are the same as the two recharge wells listed above and existing City of North Las Vegas wells:

Desert Aire Well	NW1/4 SW1/4, SEC. 6, T.20S., R.61E.,M.D.B.&M.
Valley View Well	SW1/4 NW1/4, SEC.22, T.20S., R.61E.,M.D.B.&M.
West Tank Well	SW1/4 SE1/4, SEC.22, T.20S., R.61E.,M.D.B.&M.
Tonopah Well	NE1/4 SE1/4, SEC.22, T.20S., R.61E.,M.D.B.&M.
Losee Well	SW1/4 SE1/4, SEC.15, T.20S., R.61E.,M.D.B.&M.
Wilshire Well	SE1/4 NW1/4, SEC. 5, T.20S., R.62E.,M.D.B.&M.

AREA OF ACTIVE MANAGEMENT:

The Las Vegas Artesian Groundwater Basin as described in the State Engineer's Order No. 833, dated December 27, 1983.

DURATION OF PERMIT:

This permit is issued for an indefinite period, subject to periodic review by the State Engineer.

TERMS AND CONDITIONS OF PERMIT R-007

1. The following data during recharge shall be collected and recorded as follows:
  - A. The amount of water recharged and at which well location on a daily basis.
  - B. The quality of the recharge water in terms of chloride; total dissolved solids; and electrical conductivity on a daily basis for the first fourteen days of recharge and on a weekly basis thereafter.

- 2. The following data during recovery shall be collected and recorded as follows:
  - A. The amount of water pumped from each recovery well on a daily basis.
  - B. The quality of water pumped from each recovery well in terms of chloride; total dissolved solids; and electrical conductivity on a daily basis for the first fourteen days of recovery and on a weekly basis thereafter.
- 3. The following monitoring wells shall be sampled for chloride, total dissolved solids and electrical conductivity on a monthly basis, except during any recharge or recovery periods when samples shall be collected and recorded on a weekly basis.
  - A. Leavitt Well and the Diance Terrace Well for the Gowan No. 1 Recharge Well.
  - B. West Cheyenne No. 1, Robinson, and either Elstner Estates or Airport Wells for the West Cheyenne No. 2 recharge well.
- 4. Water level measurements for each recharge well, recovery well, and all monitoring wells shall be taken on a monthly basis, except during any recharge or recovery periods, when measurements shall be taken on a daily basis for the first fourteen days of recharge and on a weekly basis thereafter.
- 5. Monitoring Wells
  - A. The following wells have been authorized as monitoring wells:

WELL

LOCATION

For West Cheyenne No. 2:

West Cheyenne No. 1	NW1/4 NE1/4 SEC.18,T.20S.,R.61E.,M.D.B.&M.
Elstner Estate Well	NW1/4 SE1/4 SEC.12,T.20S.,R.60E.,M.D.B.&M.
Airport Well	NW1/4 NE1/4 SEC.33,T.19S.,R.61E.,M.D.B.&M.
Robinson Well	SW1/4 SE1/4 SEC.18,T.20S.,R.61E.,M.D.B.&M.

For Gowan No. 1:

Diana Terrace Well	NW1/4 NE1/4 SEC.13,T.20S.,R.61E.,M.D.B.&M.
Leavitt Well	NE1/4 NE1/4 SEC.11,T.20S.,R.61E.,M.D.B.&M.

- B. The use of any other well, except as stated above, as a monitoring well must be authorized by the State Engineer. The construction of any new monitoring well must be of such a design acceptable to the State Engineer;
- 6. Information shall be provided on the pumping schedule of the City of North Las Vegas wells in the immediate area of the recharge project sites prior to, during, and after recharge and recovery.

7. Collection of data

For each water quality sample or water level measurement taken pursuant to this permit, the permittee shall record the following information:

- A. The exact place, date and time of sample or measurement;
- B. The dates the analyses were performed;
- C. The person(s) who performed the analyses or measurements;
- D. The analytical techniques or methods used; and
- E. The results of all required analyses and measurements.

8. Reporting

All monitoring results shall be analyzed, summarized and reported to the State Engineer within 30 days from the end of each calendar quarter. The first is due no later than October 30, 1990.

9. Recharge and Recovery Amount

This permit for recharge shall be limited to no more than 3,500 acre-feet in any calendar year. The amount recovered during any calendar year shall not exceed the amount established by the State Engineer in the storage account for this project.

10. Additional Monitoring by Permittee

If the permittee collects any other data than required by this permit, using approved analytical methods, the results of these analyses or measurements shall be included in any reports, as specified in item 8, to the State Engineer.

11. Annual Report

The permittee must file with the State Engineer an annual report as required by NRS 534.280. The first annual report for calendar year 1990 shall be due no later than January 31, 1991. Each subsequent annual report will be due no later than January 31 of each year.

12. The State Engineer shall levy and collect an annual fee from the permittee as prescribed in NRS 534.310.

13. The State Engineer reserves the right to change, modify or amend the terms and conditions of this permit based on just cause.

IN TESTIMONY WHEREOF, I R. MICHAEL TURNIPSEED, P.E.  
State Engineer of Nevada, have hereunto set my hand  
and the seal of my office for approval of this permit,

this 28TH day of SEPTEMBER

A.D. 1990

  
STATE ENGINEER