



THE STATE OF NEVADA

PERMIT TO APPROPRIATE WATER

Name of Permittee: CITY OF LAS VEGAS
Source: UNDERGROUND
Basin: LAS VEGAS VALLEY
Manner of Use: DEWATERING
Period of Use: JANUARY 1ST THROUGH DECEMBER 31ST
Priority Date: 11/06/2014

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance and that the final water right obtained under this permit will be dependent upon the amount of water actually placed to beneficial use. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. If the well is flowing, a valve must be installed and maintained to prevent waste. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins or before the proof of completion of work is filed. The State retains the right to regulate the use of the water granted herein at any and all times.

The total combined duty of water under Permit 84517 and Permit 84518, having a commingled place of use, shall not exceed 2,146.0 acre-feet annually.

If any water under this permit is cancelled or any water is not put to beneficial use, it will revert to the groundwater source.

This permit is issued, pursuant to NRS 534.025, for dewatering purposes within the described place of use, further identified by the Clark County Assessor as APN 161-10-401-004.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

The point of diversion and place of use are as described on the submitted application to support this permit.

(Continued on Page 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, **and not to exceed 3.33 cubic feet per second or 2,146.0 acre-feet annually.**

Work must be prosecuted with reasonable diligence and proof of completion of work shall be filed on or before:

May 27 2016

Water must be placed to beneficial use and proof of the application of water to beneficial use shall be filed on or before:

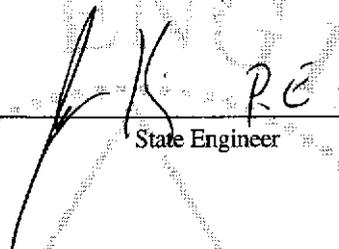
May 27 2018

Map in support of proof of beneficial use shall be filed on or before:

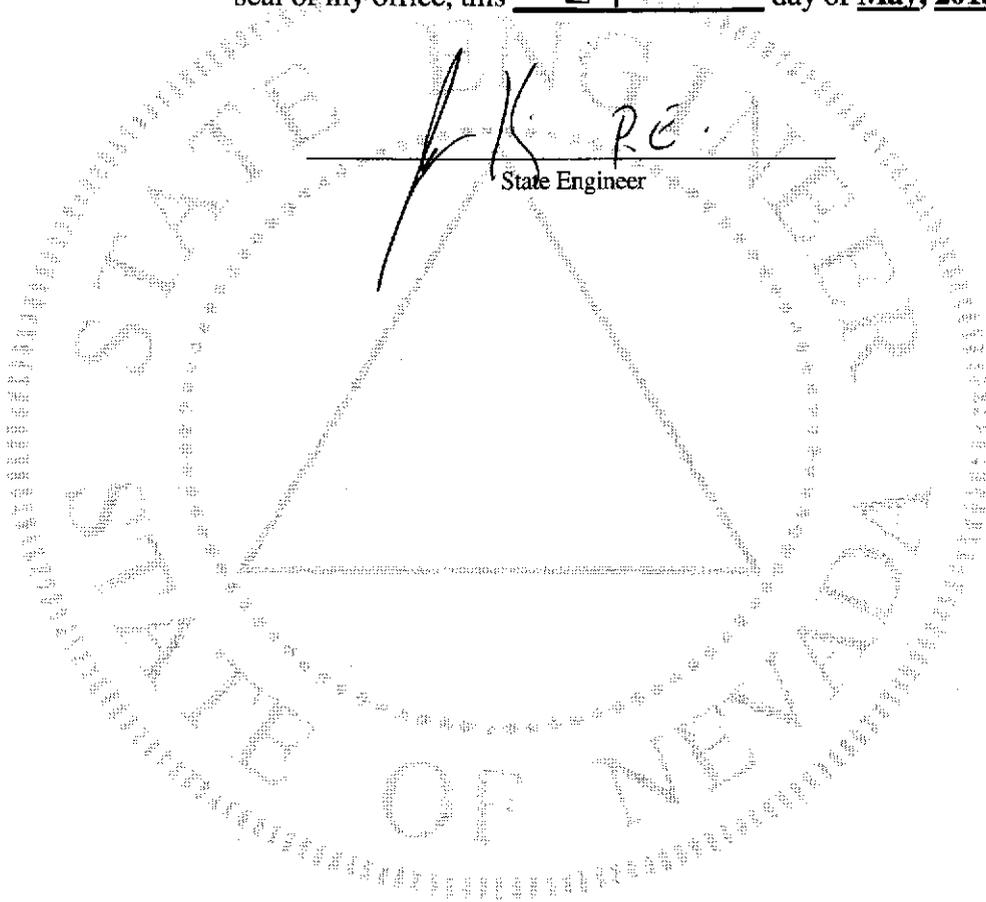
N/A

IN TESTIMONY WHEREOF, I, JASON KING, P.E.,

State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 27th day of May, 2015



State Engineer





THE STATE OF NEVADA

PERMIT TO APPROPRIATE WATER

Name of Permittee: CITY OF LAS VEGAS
Source: UNDERGROUND
Basin: LAS VEGAS VALLEY
Manner of Use: DEWATERING
Period of Use: JANUARY 1ST THROUGH DECEMBER 31ST
Priority Date: 11/06/2014

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance and that the final water right obtained under this permit will be dependent upon the amount of water actually placed to beneficial use. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. If the well is flowing, a valve must be installed and maintained to prevent waste. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins or before the proof of completion of work is filed. The State retains the right to regulate the use of the water granted herein at any and all times.

The total combined duty of water under Permit 84517 and Permit 84518, having a commingled place of use, shall not exceed 2,146.0 acre-feet annually.

If any water under this permit is cancelled or any water is not put to beneficial use, it will revert to the groundwater source.

This permit is issued, pursuant to NRS 534.025, for dewatering purposes within the described place of use, further identified by the Clark County Assessor as APN 161-10-401-004.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

The point of diversion and place of use are as described on the submitted application to support this permit.

(Continued on Page 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, **and not to exceed 3.33 cubic feet per second or 2,146.0 acre-feet annually.**

Work must be prosecuted with reasonable diligence and proof of completion of work shall be filed on or before:

May 27 2016

Water must be placed to beneficial use and proof of the application of water to beneficial use shall be filed on or before:

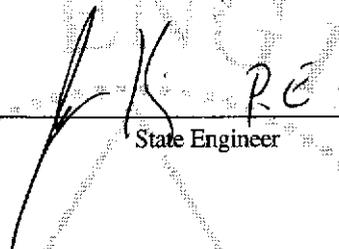
May 27 2018

Map in support of proof of beneficial use shall be filed on or before:

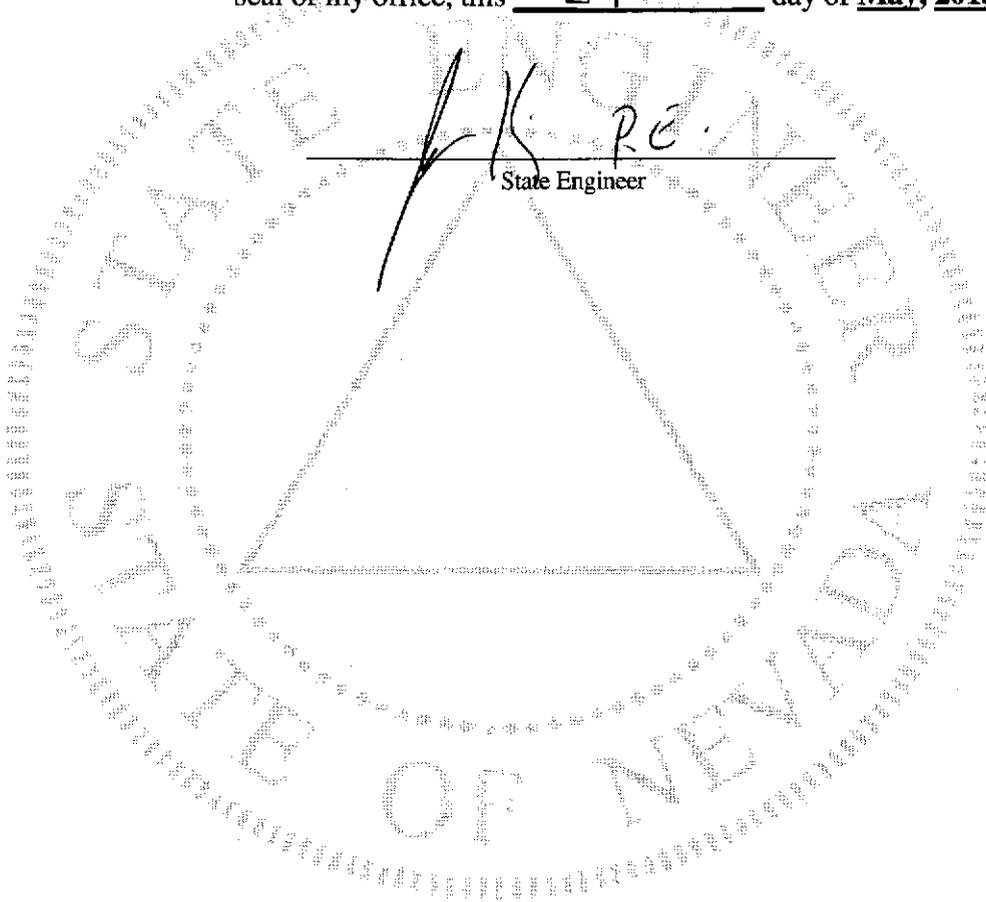
N/A

IN TESTIMONY WHEREOF, I, JASON KING, P.E.,

State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 27th day of May, 2015



State Engineer



APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

THIS SPACE FOR OFFICE USE ONLY	
Date of filing in State Engineer's Office _____	NOV 06 2014
Returned to applicant for correction _____	
Corrected application filed _____	Map filed <u>Nov 6 2014</u> under <u>84517</u>

The applicant City of Las Vegas

6005 East Vegas Valley Drive of Las Vegas
Street Address or P.O. Box City or Town

Nevada 89142, hereby make(s) application for permission to
State and Zip Code

Appropriate the public waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a co-partnership or association give names of members.)

1. The source of water is an underground source (shallow groundwater)
Name of stream, lake, underground, spring or other sources.

2. The amount of water applied for is 3.33 cfs second feet.
One-second foot equals 448.83 gallons per minute.

(a) If stored in reservoir give number of acre-feet N/A

3. The water to be used for dewatering
Irrigation, power, mining, commercial, domestic or other use. Must limit to one major use.

4. If use is for:

(a) Irrigation, state number of acres to be irrigated N/A

(b) Stockwater, state number and kind of animals N/A

(c) Other use (describe fully in No. 12) N/A

(d) Power:

(1) Horsepower developed N/A

(2) Point of return of water to stream N/A

5. The water is to be diverted from its source at the following point: (Describe as being within a 40-acre subdivision of public survey, and by course and distance to a found section corner. If on unsurveyed land, it should be stated.)

Within the SE¼ SW¼ of Section 10, Township 21 South, Range 62 East, M.D.M. from multiple points as described in Attachment 1 (West) and as Table 1 (West) on supporting map.

RECEIVED
2014 NOV -6 AM 11:27
STATE ENGINEERS OFFICE

13-212
CI

6. Place of use (Describe by legal subdivision. If on unsurveyed land, it should be stated.)

Within the SE¼ SW¼ and a portion of the SW¼ SE¼ all within Section 10, Township 21 South, Range 62 East M.D.M. Further described as being within a portion of APN 161-10-401-004, Clark County, Nevada.

7. Use will be from January 1st to December 31st of each year.
Month and Day Month and Day

8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) (State manner in which water is to be diverted, i.e. diversion structure, ditches and flumes, drilled well with pump and motor, etc.)

Water to be diverted from multiple dedicated dewatering wells equipped with electrical submersible pumps; with the extracted water being pumped into the existing effluent process stream

9. Estimated cost of works: \$3 million (total project construction)

10. Estimated time required to construct works: three (3) years

11. Estimated time required to complete the application of water to beneficial use: five (5) years

12. Provide a detailed description of the proposed project and its water usage (use attachments if necessary):
(Failure to provide a detailed description may cause a delay in processing.)

The complete dewatering well field will consist of 12 shallow dewatering wells (six under this application and six under an accompanying application) that will extract up to 2,146 acre-feet annually of shallow groundwater to lower the shallow groundwater table in the vicinity of the nitrification basin complex to alleviate the hazard caused by the shallow groundwater, to protect the nitrification basin equipment and to allow for maintenance of the nitrification basin equipment as needed.

13. Miscellaneous remarks: This dewatering system is part of the City of Las Vegas Water Pollution Control Facility nitrification basin complex. All shallow groundwater pumped for dewatering purposes will be discharged for treatment into the treatment plant effluent stream which operates under NDWR permit 67228 and NDEP Discharge Permit NEV0020133. The total combined project diversion rate is 3.33 CFS, not to exceed a total combined project duty of 2,146 AFA from both applications.

jbettencourt@lasvegasnevada.gov
E-mail

(702) 229-6560
Phone No.

By John Bettencourt, P.E.
Print or type name clearly


Signature, Applicant or Agent

City of Las Vegas
Company Name

6005 East Vegas Valley Drive

Street Address or P.O. Box

Las Vegas, NV 89142
City, State, Zip Code

RECEIVED
2014 NOV -6 AM 11:27
JMAE ENGINEERS OFFICE

APPLICATION MUST BE SIGNED BY THE APPLICANT OR AGENT

\$360 FILING FEE AND SUPPORTING MAP MUST ACCOMPANY APPLICATION

ATTACHMENT 1 (WEST)

Well Name	1/4-1/4	1/4	Sec.	Twn.	Rng.	APN	Found Corner	Tie Line (Distance)	Tie Line (Bearing)
PW-1	SE	SW	10	21S	62E	161-10-401-004	S1/4	671.9	S 28° 38' 48" E
PW-3	SE	SW	10	21S	62E	161-10-401-004	S1/4	857.3	S 16° 08' 44" E
PW-5	SE	SW	10	21S	62E	161-10-401-004	S1/4	979.7	S 13° 29' 52" E
PW-7	SE	SW	10	21S	62E	161-10-401-004	S1/4	1,222.2	S 10° 31' 42" E
PW-9	SE	SW	10	21S	62E	161-10-401-004	S1/4	1,359.7	S 09° 42' 28" E
PW-11	SE	SW	10	21S	62E	161-10-401-004	S1/4	755.3	S 32° 18' 16" E

RECEIVED
2014 NOV -6 AM 11:27
STATE ENGINEERS OFFICE