



ENVIRONMENTAL
THE STATE OF NEVADA

PERMIT TO APPROPRIATE WATER

Name of Permittee: AMERICAN PACIFIC CORPORATION
Source: UNDERGROUND
Basin: LAS VEGAS VALLEY
Manner of Use: ENVIRONMENTAL
Period of Use: JANUARY 1ST TO DECEMBER 31ST
Priority Date: 11/03/2011

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 environmental permit is issued pursuant to the provisions of NRS 533.4375, and provides for the completion of multiple extraction wells within the same quarter-quarter section, as long as the permitted amount is not exceeded. It is understood that the amount of water herein granted is only a temporary allowance for pollution control as mandated by orders issued by the Nevada Division of Environmental Protection. The right will cease to exist upon termination of clean up activity, as determined by the Nevada Division of Environmental Protection, and the permittee shall notify the State Engineer within 30 days after the completion of the remediation project. All wells shall be plugged and abandoned in accordance with Chapter 534 of the Nevada Administrative Code. A totalizing meter must be installed and maintained in the discharge pipeline and monthly records of this measurement shall be submitted on an annual basis not later than February 15th of each year. If additional wells are drilled under this permit, a new mylar map showing the surveyed locations must be submitted with the annual report.

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

The total combined duty of water under Environmental Permits 68622E, 72900E, 72982E, 72983E, 81290E, 81337E, 81338E and 81339E, shall not exceed 2430.42 acre-feet annually.

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

This environmental permit is issued for environmental purposes for wells located on the parcels identified by the Clark County Assessor as APN 178-11-310-014 and 178-11-411-009.

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 0.5 cubic feet per second or 361 acre-feet annually.**

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

January 5 2013

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

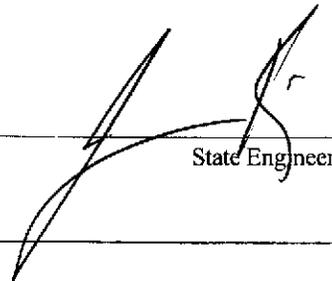
N/A

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 5th day of January, A.D. 2012



State Engineer P.E.

Completion of work filed _____

Proof of beneficial use filed _____

Cultural map filed _____

Certificate No. _____ Issued _____

THIS OFFICE SENT APPLICANT WITH
FORM WITH THE RFC LETTER.

81290E

PERMIT ^{AMENDED} TO ^{APPROPRIATE} APPLICATION No. 81290E
APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER
OF USE AND PLACE OF USE OF THE PUBLIC WATERS
OF THE STATE OF NEVADA HERETOFORE APPROPRIATED.

THIS SPACE FOR OFFICE USE ONLY
Date of filing in State Engineer's Office NOV 03 2011
Returned to applicant for correction NOV 10 2011
Corrected application filed NOV 22 2011 Map filed NOV 22 2011 under 81290E

The applicant American Pacific Corporation (AMPAC)
3883 Howard Hughes Pkwy, Suite 700 of Las Vegas
Street Address or PO Box City or Town
Nevada, 89169 State and ZIP Code
hereby make(s) application for permission to change the

Point of diversion Place of use Manner of use of a portion
of water heretofore appropriated under (Identify existing rights by Permit, Certificate, Proof or Claim Nos. If Decreed, give title of Decree and identify right in Decree.)

AMPAC is a Delaware Corporation established December 9, 1980

REL

1. The source of water is Underground
Name of stream, lake, underground, spring or other sources.
2. The amount of water to be changed 0.5 second feet
Second feet, acre-feet. One second foot equals 448.83 gallons per minute.
3. The water to be used for Environmental
Irrigation, power, mining, commercial, etc. If for stock, state number and kind of animals. Must limit to one major use
4. The water heretofore used for N/A
If for stock, state number and kind of animals.
5. The water is to be diverted 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.)
Two wells located within SW 1/4 of SW 1/4 of Section 11, Township 22 South, Range 62 East, MDM; AMEW-2; 1,252.03 ft N 12d20m54s E of section corner, SW corner said Section 11; AMEW-4; 1,142.00 ft N 84d55m30s E of section corner. SW corner said Section 11
The wells will extract groundwater from depths of 151 to 215 feet below ground surface.
6. The existing point of diversion is located within (If point of diversion is not changed, do not answer.)

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7. Proposed place of use (Describe by legal subdivisions. If for irrigation, state number of acres to be irrigated.)

Perchlorate removal treatment will occur within the SE 1/4 of SE 1/4 of Section 36, Township 21S, Range 62E, MDM (AMPAC Groundwater Treatment System (AGTS) facility). Treated groundwater will be discharged within the SE 1/4 of SW 1/4 of Section 30, Township 21S, Range 63E, MDM (existing Robert B. Griffith discharge channel). Proposed use is for treatment and removal of perchlorate only, and will be non-consumptive. Treated groundwater will be discharged to the Las Vegas Wash, returning the water to beneficial use.

8. Existing place of use (Describe by legal subdivisions. If changing place of use and/or manner of use of irrigation permit, describe acreage to be removed from irrigation.)

9. Proposed use will be from Jan 1 to Dec 31 of each year.
Month and Day Month and Day

10. Existing use permitted from _____ to _____ of each year.
Month and Day Month and Day

11. Description of proposed works. (Under the provision 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, pipes and flumes or drilled well, pump and motor, etc.)

Groundwater will be extracted from five (5) wells via pump and motor within each well, and transported via 8" HDPE pipeline to the AGTS facility. After treatment, the groundwater will be discharged to a man-made tributary to the Las Vegas Wash.

12. Estimated cost of works \$4.3 million

13. Estimated time required to construct works Four and one-half (4 1/2) months
If well completed, describe well.

14. Estimated time required to complete the application of water to beneficial use _____

15. 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.)

AMPAC is in the process of increasing its ability to more efficiently treat perchlorate groundwater contamination at the former PEPCON site in Henderson, NV with the construction of five (5) new extraction wells, transmission pipeline and Fluidized Bed Reactor (FBR) bio-treatment system. Please refer to Exhibit A (work plan submitted to NDEP) and Exhibit B (NDEP Concurrence with Conditions, dated October 4, 2011) for additional information

16. Miscellaneous remarks:

mhansen@apfc.com
E-mail Address
(702) 699-4146
Phone No. Ext.

APPLICATION MUST BE SIGNED
BY THE APPLICANT OR AGENT

Mike J Hansen, PE

Type of print name clearly
Mike J Hansen
Signature, applicant or agent
American Pacific Corporation (AMPAC)
Company Name
3883 Howard Hughes Parkway, Suite 700
Street Address or PO Box
Las Vegas, NV 89169-5995
City, State, ZIP Code

STATE OF NEVADA
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