



BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

NEW MEXICO
ENVIRONMENT DEPARTMENT



Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us



RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 28, 2009

Mr. Ed Riege
Environmental Superintendent
Western Refining, Southwest Inc., Gallup Refinery
Route 3, Box 7
Gallup, New Mexico 87301

**RE: REQUIREMENT TO INSTALL MONITORING WELLS
WESTERN REFINING COMPANY, SOUTHWEST, INC., GALLUP REFINERY
HWB-GRCC-MISC
EPA ID # NMD000333211**

Dear Mr. Riege:

The New Mexico Environment Department (NMED) requires Western Refining Southwest Inc., (the Permittee) to install two monitoring wells. This requirement was addressed in Comment 14 of NMED's March 26, 2009 Notice of Disapproval (NOD) to the *Oil Conservation Division 2007 Annual Groundwater Report (and OCD Addendum)*, dated August 28, 2008. In Comment 14, NMED stated "[t]he Permittee must install another well(s) downgradient of OW-13 and OW-29 to determine if contamination has migrated north, northwest of the refinery and potentially offsite. NMED will address the installation of additional well(s) in a separate letter."

The Permittee must install two monitoring wells at the Gallup Refinery to meet the specifications described below:

- a. The Permittee must locate the extension of the sand/gravel water bearing layer that extends north of OW-29 and install one monitoring well at the approximate location specified in the attached Figure 1.

Ed Riege
Gallup Refinery
May 28, 2009
Page 2

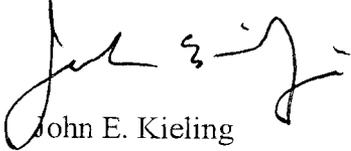
- b. The Permittee must locate and install a monitoring well intersecting the sand stringer that is generally oriented east/west that is anticipated to extend across the northern end of the facility. This relatively coarse-grained zone has been observed near the east end of the old landing strip and in the vicinity of the north ends of Evaporation Ponds 11 and 12. See the attached Figure 1 for the approximate well location.
- c. The monitoring wells must be screened to cross the water table with approximately five feet of screen above the water table no less than five and no more than ten feet of screen below the water table. This will accommodate seasonal fluctuations and detection of separate-phase hydrocarbons. The screened intervals in the wells must intersect a minimum water column of five feet, if possible.
- d. During drilling, if the Permittee achieves the approximate target depth but does not encounter water, the boring must be left open over night to allow for infiltration of groundwater. The Permittee must contact NMED prior to abandoning the boring or installing the well if these conditions are encountered.
- e. The monitoring wells must be developed within ten days of being installed and the initial sampling must be analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), RCRA 8 metals, gasoline range organics (GRO), diesel range organics (DRO) extended, and general chemistry parameters.
- f. The monitoring wells must be installed no later than October 30, 2009. Once installation is complete, the monitoring wells must be added to the annual update to the Facility Wide Groundwater Monitoring Plan. The Permittee must submit to NMED a summary well installation report that includes the well logs, well construction details, survey data, and initial groundwater monitoring and sampling data no later than December 31, 2009.

The approximate monitoring well locations are not based on specific knowledge of the presence of sand stringers. The Permittee will need to locate the sand stringers based on review of past drilling operations and well logs at the refinery.

Ed Riege
Gallup Refinery
May 28, 2009
Page 3

If you have questions regarding this letter please contact Hope Monzeglio of my staff at 505-476-6045.

Sincerely,



John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain NMED HWB
H. Monzeglio NMED HWB
B. Jones, OCD
C. Chavez, OCD
R. Gaurav, Gallup
File: Reading File and GRCC 2009 File
HWB-GRCC-MISC