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June 10, 2005

Norman Shopay Project Manager California Department of Toxic Substances Control Geology and Corrective Action Branch 700 Heinz Avenue, Suite 200 Berkeley, California 94710

Subject: Groundwater Elevation Maps for IM No. 3 Injection Area

PG&E Topock Compressor Station, Needles, California

Dear Mr. Shopay:

The letter transmits groundwater elevation contour maps for the Interim Measures No. 3 injection well field area, which are submitted in compliance with the Item 3 requirement in the Department of Toxic Substances Control's (DTSC) May 24, 2005 letter. The groundwater elevation maps were prepared from water level data collected March 22 and May 18, 2005 and include the following:

- March 22, 2005 water level survey Groundwater Elevation Contours for Shallow Wells, Mid-depth Wells, and Deep Wells (Figures 5-8a, 5-8b, 5-8c, respectively)
- May 18, 2005 water level survey Groundwater Elevation Contours for Shallow Wells, Mid-depth Wells, and Deep Wells (Figures 5-8d, 5-8e, 5-8f, respectively)

The above-listed groundwater elevation maps and hydraulic gradient measurements will be presented and discussed in the forthcoming submittal of the final Groundwater and Hydrogeologic Investigation Report for Interim Measures No. 3 Injection Area.

The groundwater elevation maps were prepared from salinity/temperature adjusted manual water level measurements collected at the shallow, mid-depth, and deep monitoring and observation wells in the IM No. 3 injection area. The resultant lateral gradients depicted on these figures show transient conditions in the aquifer at the time of measurement and may not reflect the expected average annual groundwater flow directions.

To assist in reviewing the attached maps, a hydrograph of the Colorado River level during the period of January through mid-May 2005 (Figure 1) is also attached. The hydrograph documents the rather abrupt seasonal rise in river level that occurred during the March 22 water level survey. The second water level survey was conducted 8 weeks later when the average river level was approximately 5 feet higher than January-March levels. As observed Mr. Norman Shopay June 10, 2005 Page 2

in ongoing hydraulic monitoring, the aquifer across the site responds to changes in river level. The attached March and May 2005 gradient maps for the IM No. 3 injection area reflect transient "snap-shot" views of hydraulic conditions in the aquifer at one point in time.

If you have any questions on the attached maps, please call me at (805) 546-5243.

Julie Eakins for yvonne Medis

Sincerely,

Cc: Kate Burger

Karen Baker Fred Zanoria Aaron Yue





