

July 7, 1992 Project 305-79.01

Mr. Dan Kirk Shell Oil Company P.O. Box 5278 Concord, California 94520

Re: Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California
WIC No 204-5508-5504

Dear Mr. Kirk:

This letter was prepared by Pacific Environmental Group, Inc. (PACIFIC) for Shell Oil Company (Shell) for the site referenced above. The purpose of this letter is to provide an update on activities at the site, and to outline the next steps proposed by PACIFIC for the site.

PACIFIC reviewed available files at the Alameda County Health Care Services Agency (ACHCS) for the site located at 295 Hegenberger Road (adjacent to the Shell Service Station). Following the review, PACIFIC noted some concerns regarding the 295 Hegenberger Road site. The previous investigation on the property was mainly focused on delineating extent of waste oil impacted soil, and not on gasoline impacted soil. A small quantity of unleaded gasoline was apparently stored at the site. A monitoring well was installed by the waste oil tank at the site. Soil and groundwater analytical results for the 295 Hegenberger Road site are limited. There is concern that initiating remedial activities on the Shell site without additional data from the 295 Hegenberger Road site may adversely impact the Shell site.

PACIFIC is currently preparing a short report documenting the results of the soil excavation sampling that occurred at the site in late April and late May, 1992. This report will be submitted by July 15, 1992.

FAX: (408) 243-3911

FAX: (510) 825-0882

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Project Geologist

RG 5319

Attachments: Historical Groundwater Contour Maps

cc: Mr. Barney Chan, Alameda County Health Care Services Agency Mr. Rich Hiett, Regional Water Quality Control Board

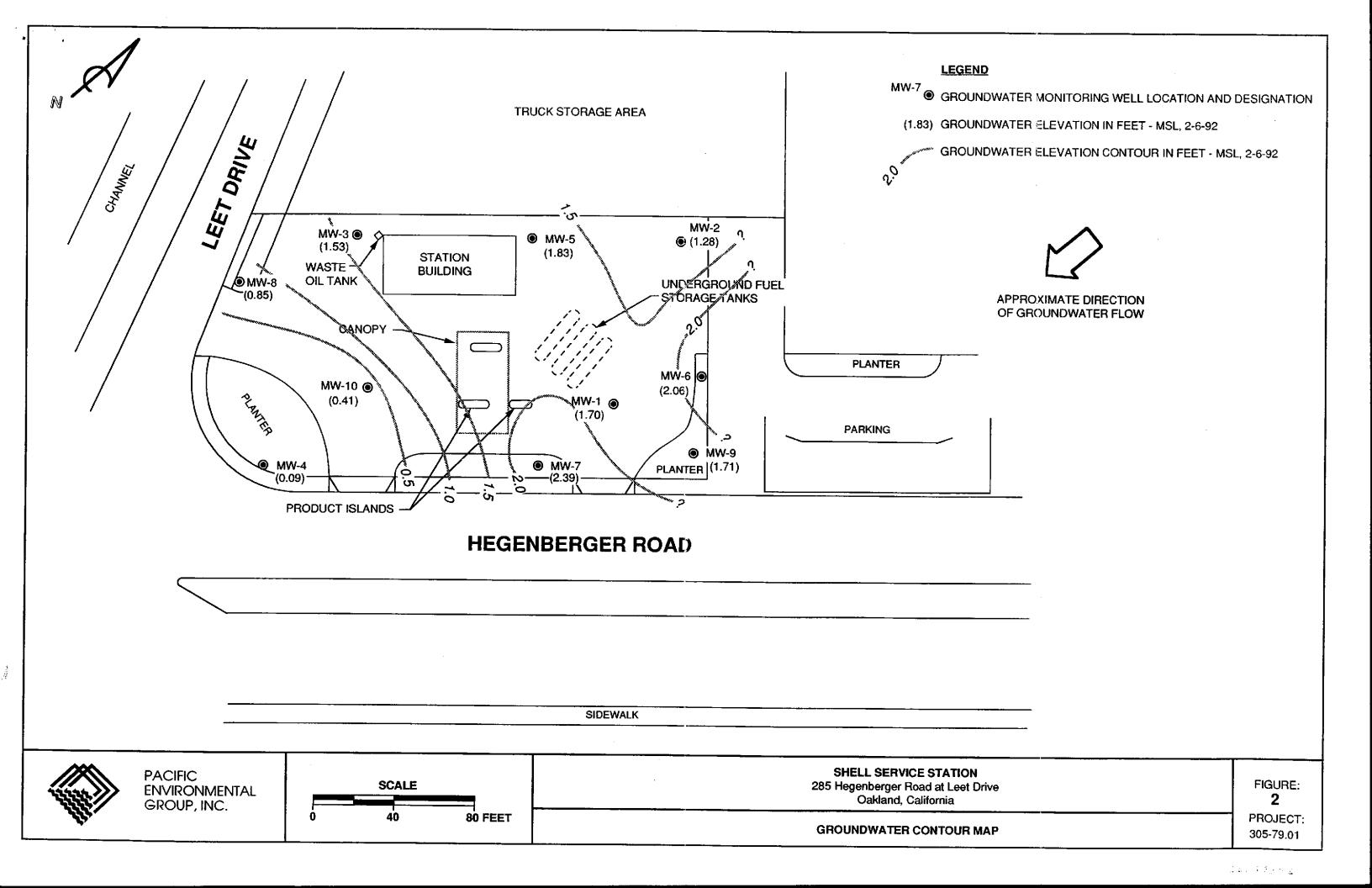
PACIFIC has conducted an evaluation of groundwater flow directions at the site since 1989. Groundwater elevations at the site have generally exhibited a groundwater mound in the area of the tank complex, and commonly a groundwater high in Well MW-7. Available groundwater contour maps are presented in Attachment A. The groundwater high in the area of the tank complex causes a radial groundwater flow pattern in the eastern portion of the site. In the western and southern portion of the site, groundwater flow is southerly, consistent with the anticipated regional groundwater flow direction.

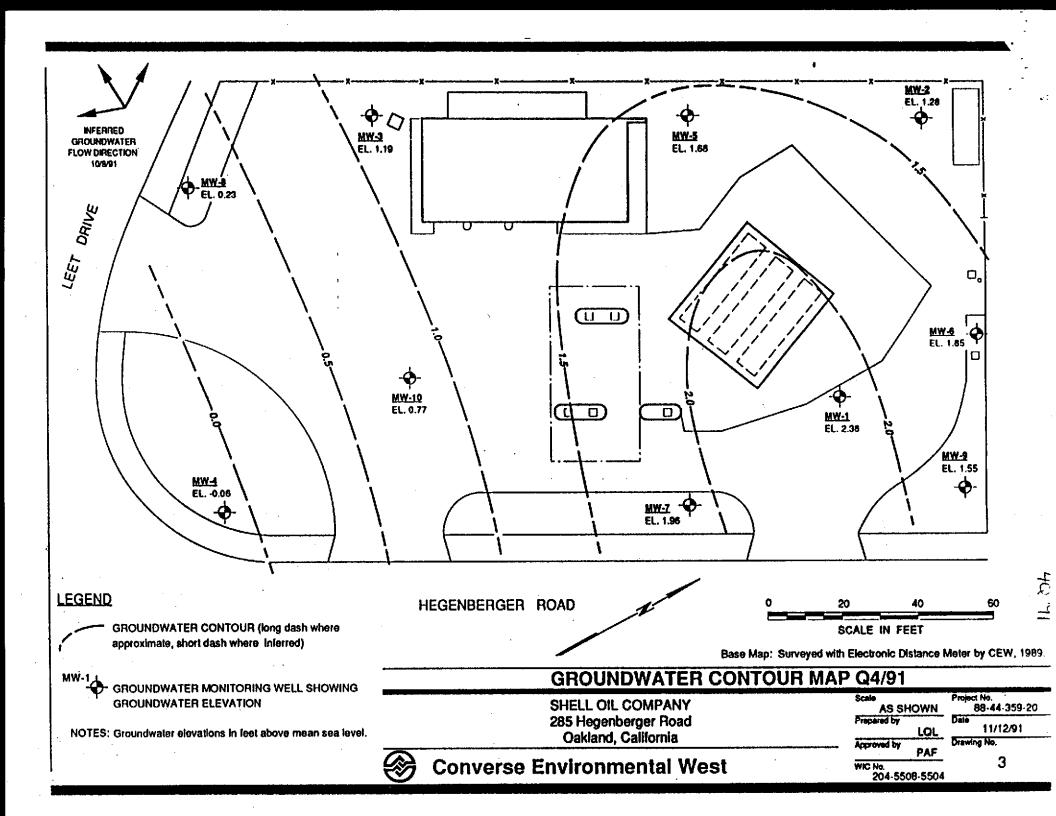
PACIFIC recommends sampling Monitoring Wells MW-2 through MW-5, and MW-7 through MW-9 for motor oil by EPA Method 8015 during the third quarter monitoring event, to further investigate the anomalous diesel concentrations noted in groundwater at the site.

PACIFIC and Shell also plan to obtain a right-of-entry agreement for 295 Hegenberger Road, and aim to obtain permission to survey the monitoring well to the same datum as the monitoring wells on the Shell Service station property, and to collect a groundwater sample from the well at the 295 Hegenberger Road site. The groundwater sample will be analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g), total petroleum hydrocarbons calculated as diesel (TPH-d), benzene, toluene, ethylbenzene, and xylene isomers (BTEX compounds), and total petroleum hydrocarbons calculated as motor oil (TPH-mo).

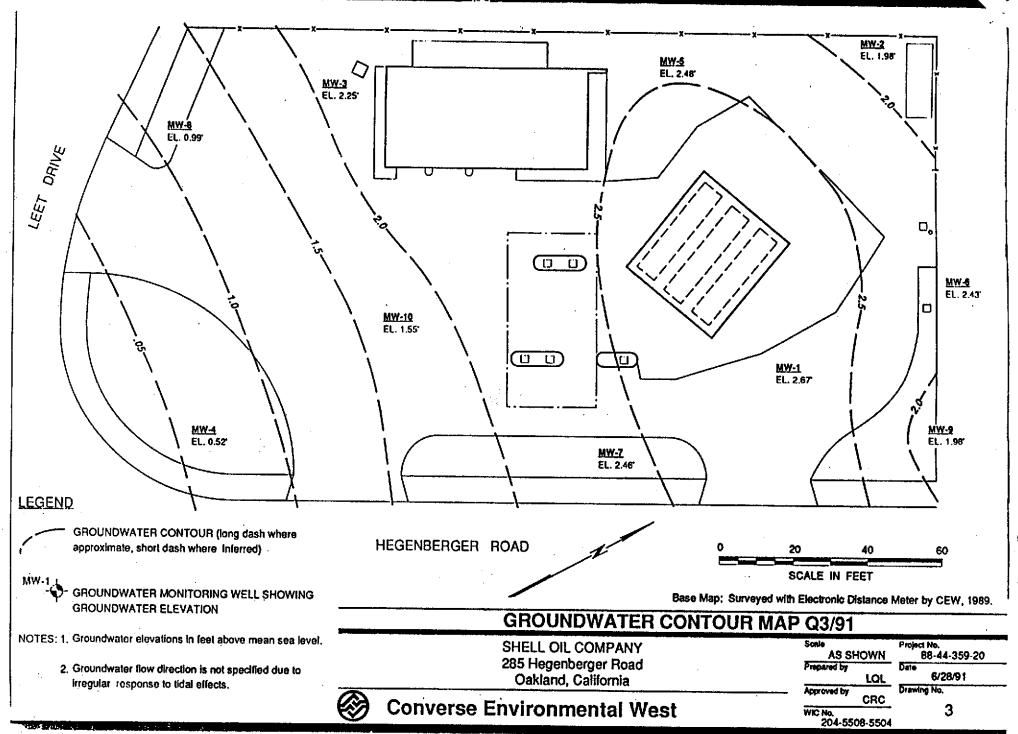
PACIFIC also plans to perform a Hydropunch investigation along Hegenberger Road to evaluate potential off-site hydrocarbons in groundwater and potential off-site sources, and to establish potential monitoring well locations for hydrocarbon plume delineation. PACIFIC will perform the investigation during the first week of September 1992. This will allow time for completion of encroachment on to Hegenberger Road.

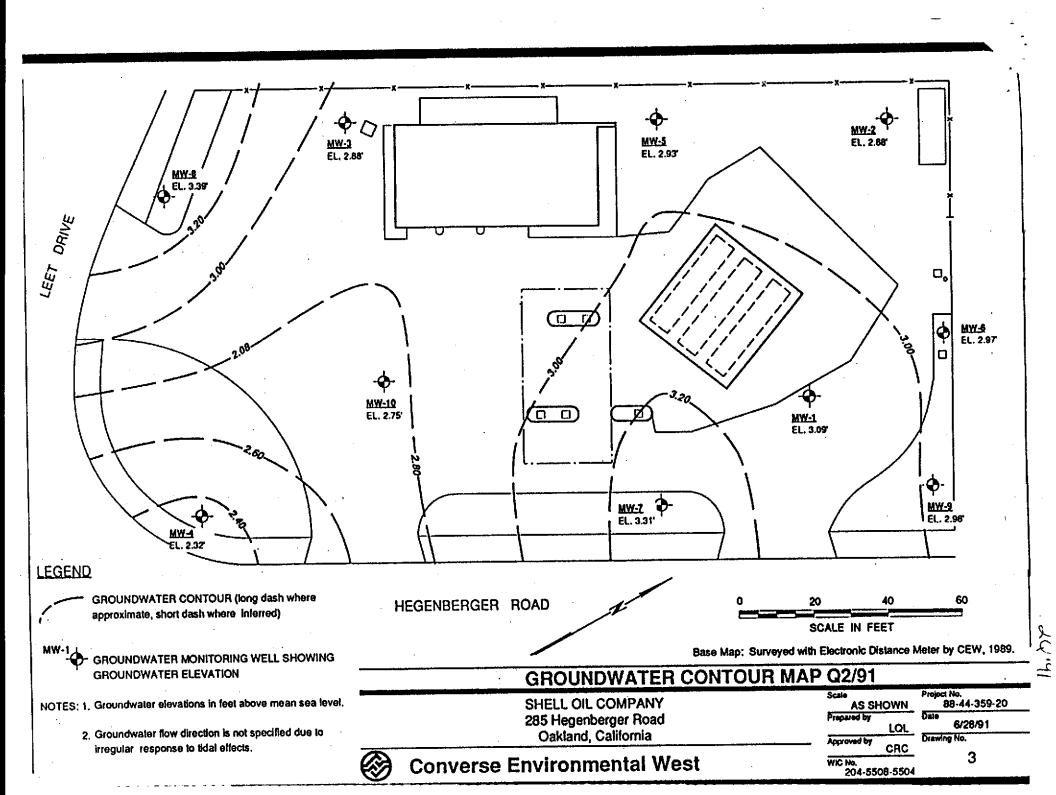
Following interpretation of the Hydropunch data, and data obtained from the well on the 295 Hegenberger Road site, PACIFIC will evaluate remedial strategies.

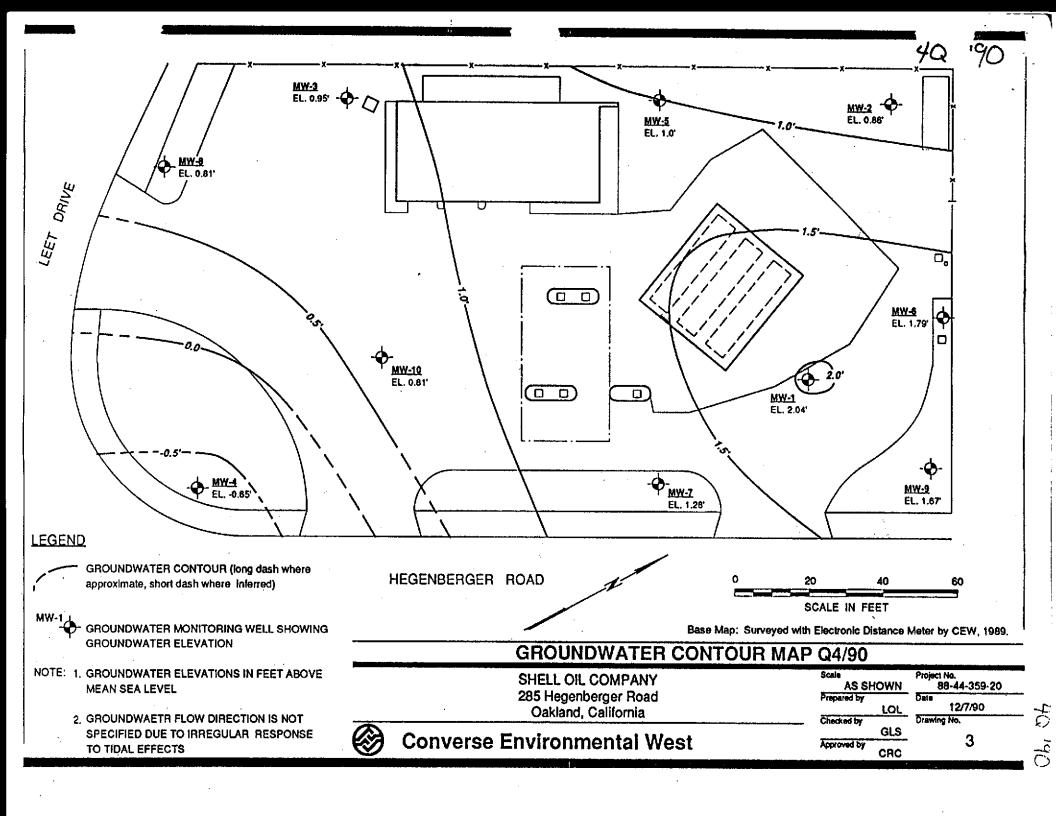


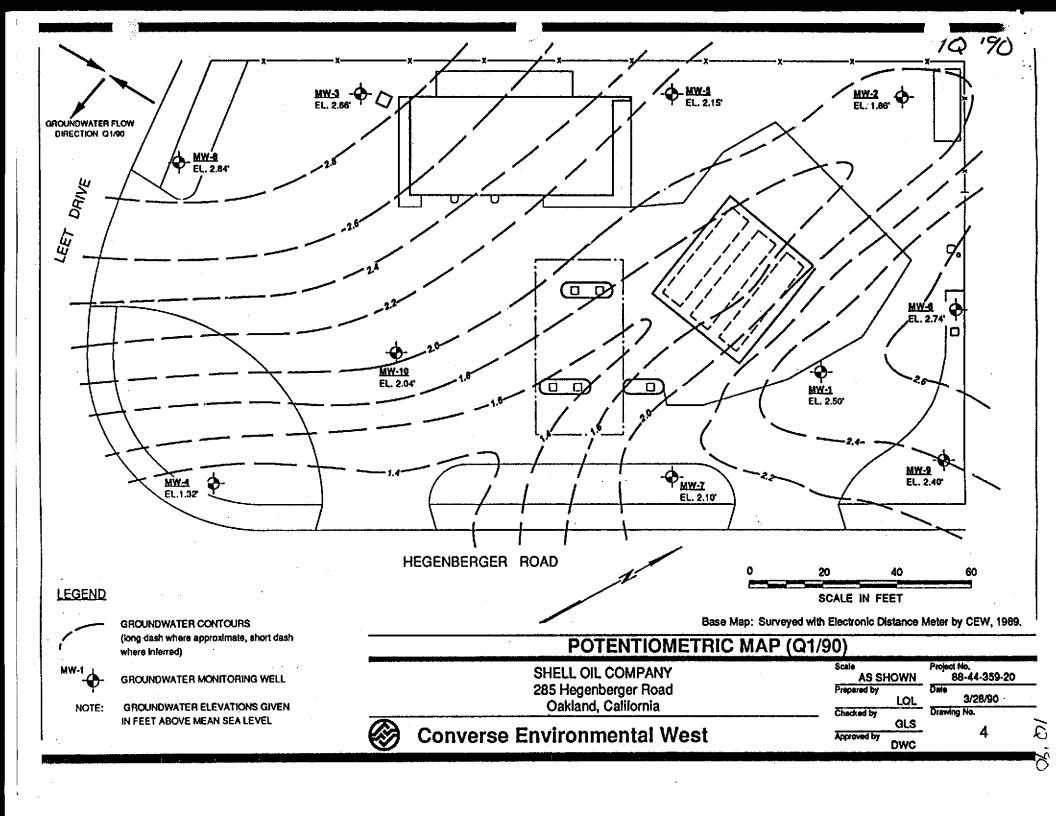


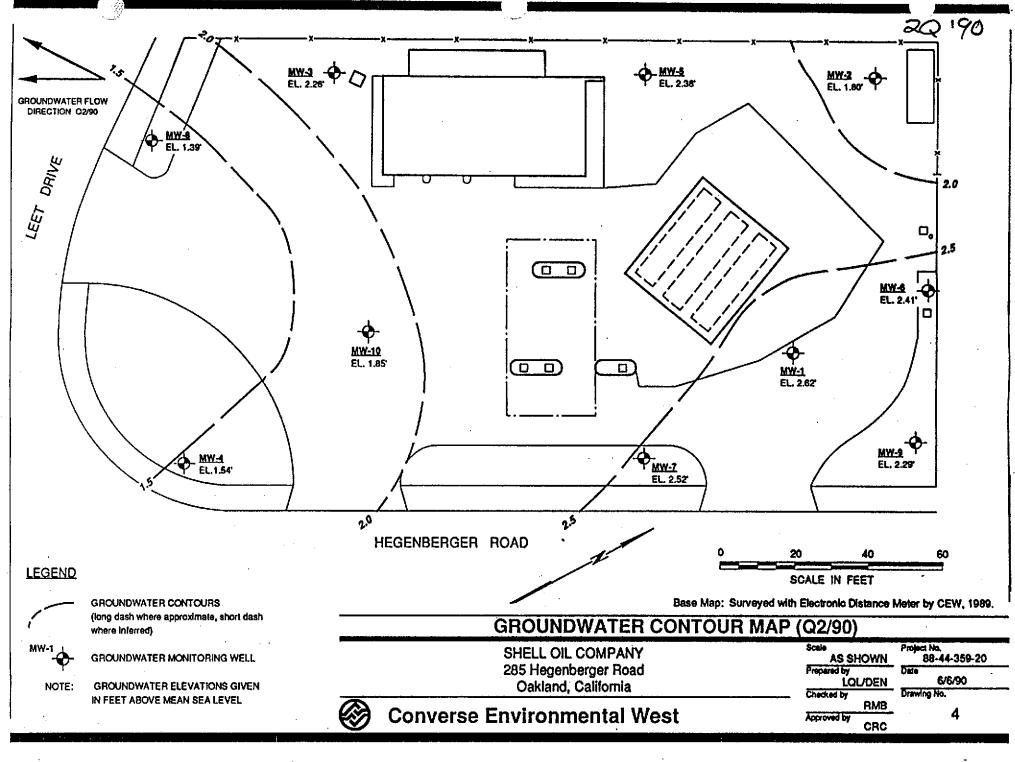


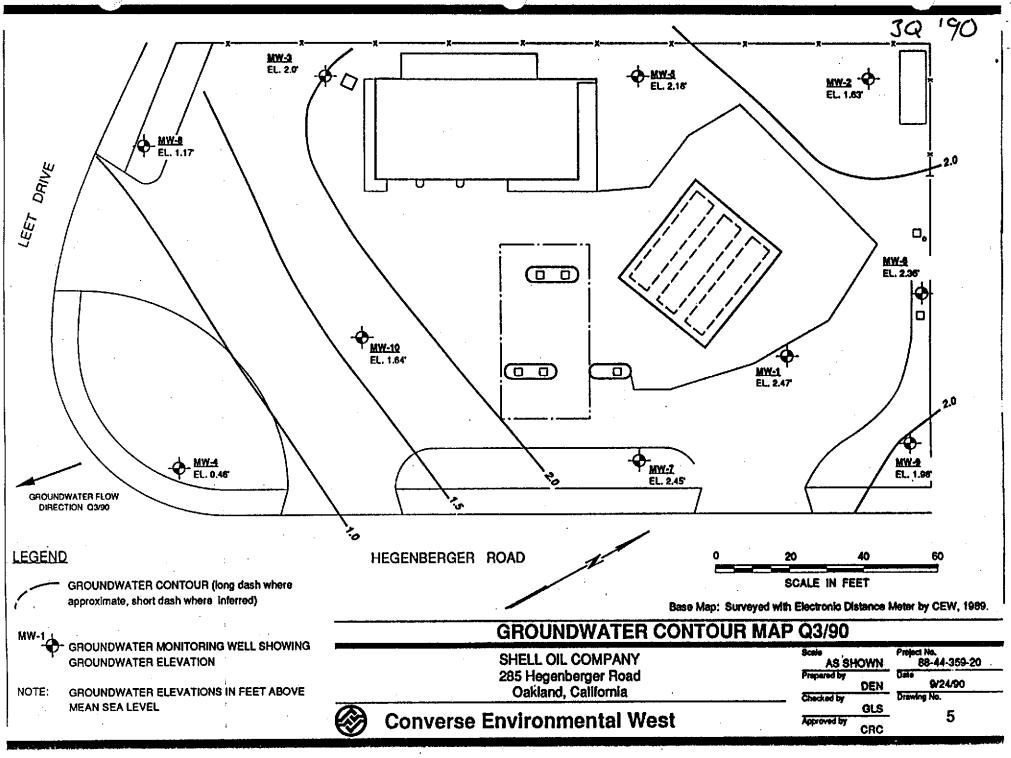












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