

DIVISION OF ENVIRONMENTAL MANAGEMENT

July 18, 1985

M E M O R A N D U M

TO: Perry Nelson

THROUGH: Chuck Wakild

FROM: Rick Shiver *rss*

SUBJECT: Request for Assistance from
Exploration Unit
Perchloroethylene Problem
Tarawa Terrace I
Marine Corps Base
Onslow County

This memo is to request assistance from the Exploratory Unit to install two monitoring stations at the Glam-O-Rama Dry Cleaners, Jacksonville, Onslow County (See Figure 1).

The limited data suggest that the contamination problem may originate from two facilities: ABC Cleaners and Glam-O-Rama Cleaners (See Figure 1). An apparent source was found at ABC Cleaners (septic tank?), but the physical circumstances do not favor it as the "most probable" source. At Glam-O-Rama, no obvious source was discovered: however, the physical circumstances indeed do favor it as the "most probable" source. Hence, it is my recommendation that we first acquire data from the Glam-O-Rama site: if no PCE plume exists there, then we should attempt to acquire data at the ABC site (downgradient well sites are a problem at ABC!).

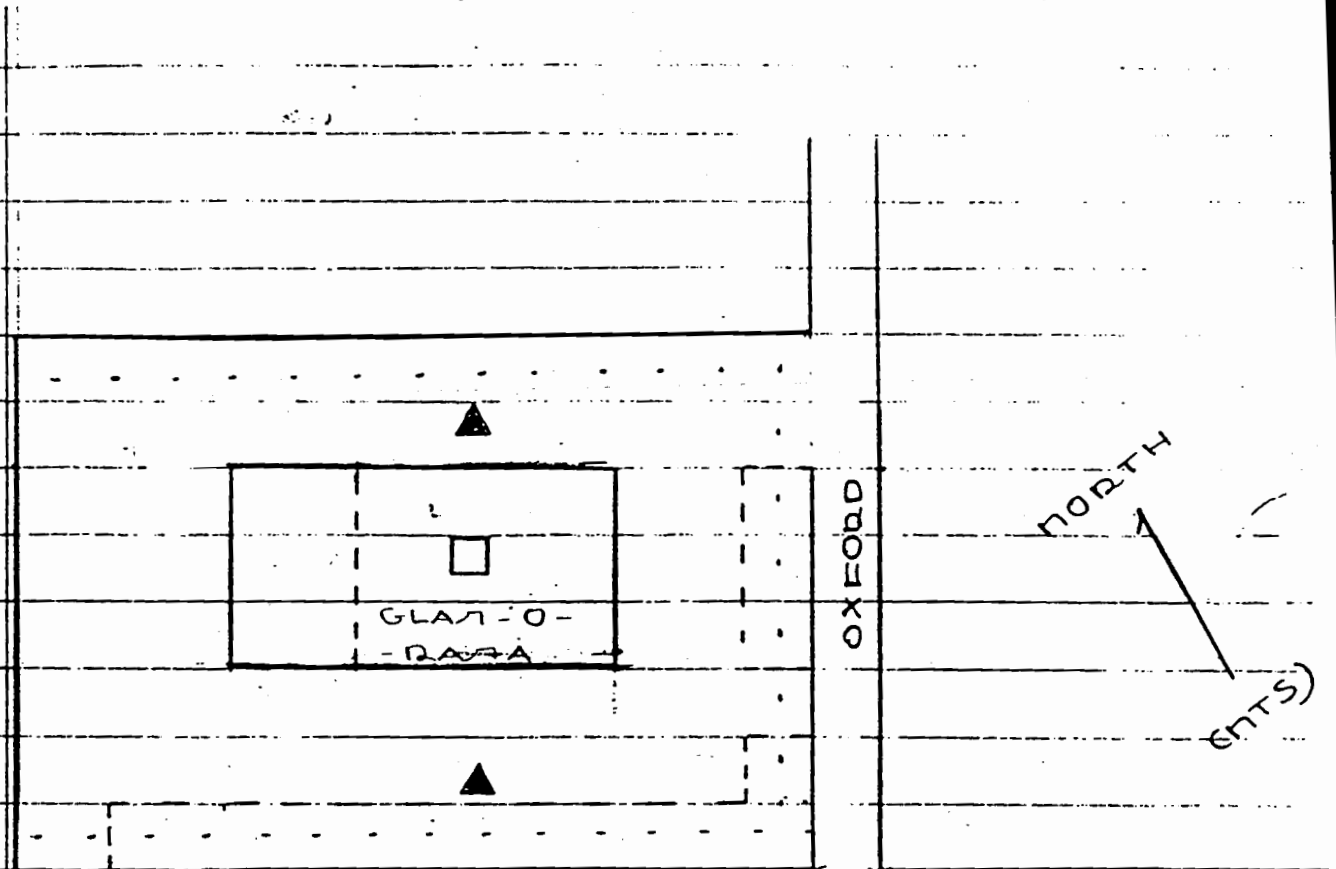
The attached schematic shows where I think the stations should be located at Glam-O-Rama. At each station, it is my suggestion that we construct three wells at each station: each station should have a well exposed to the upper, middle, and lower unit of the aquifer. Well TT-26, not incidentally, is about 100 feet deep and probably is exposed to the (semi-confined) Yorktown Aquifer.

After construction of these stations, we need to sample each well for tetrachloroethylene (perc), trichloroethylene, and dichloroethylene. To demonstrate how a plume might migrate from the source to well TT-26, it would be useful to perform an aquifer test on TT-26 (PW) and use the multi-well stations as observation wells.

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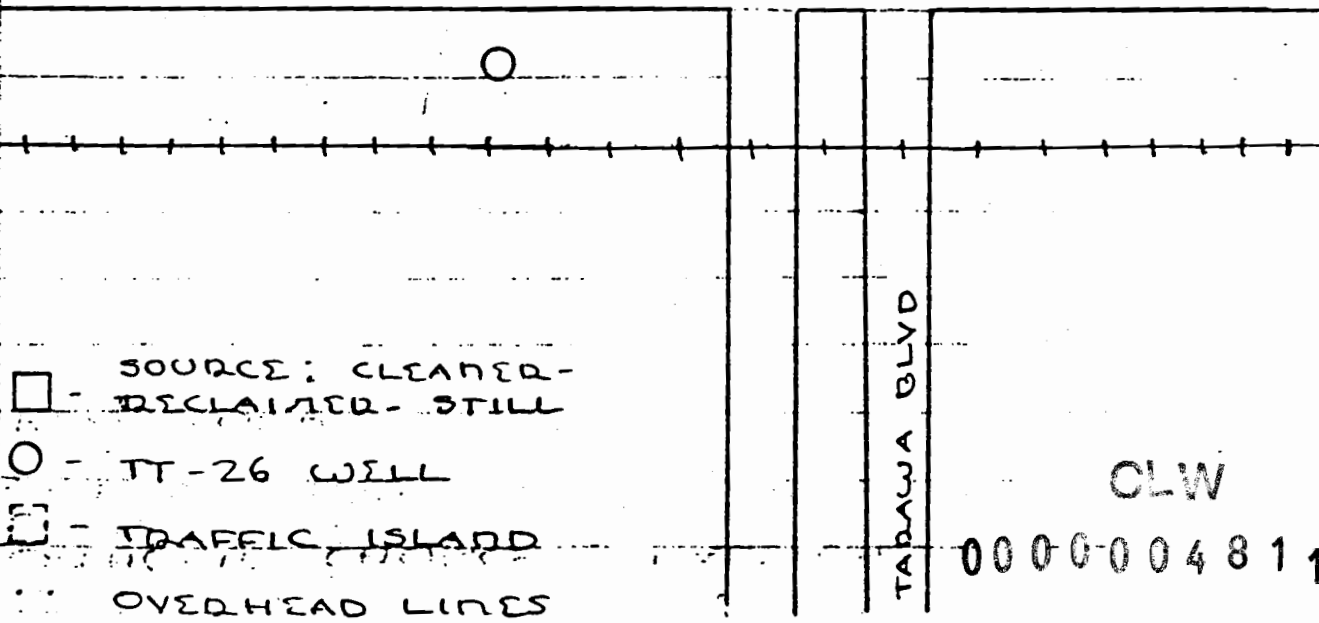
SCHEMATIC THAT SHOWS THE PROPOSED
 LOCATION OF TWO MONITORING STATIONS,
 PCE PROBLEM, TABAWA TERRACE I, MARINE
 CORPS BASE, ONSLOW CO.



LEJOUDE BLVD

OXFORD

NORTH
 (ENTS)



TABAWA BLVD

- - SOURCE; CLEANER-RECLAIMED-STILL
- - TT-26 WELL
- ▤ - TRAFFIC ISLAND
- ⋯ - OVERHEAD LINES
- ▲ - MONITORING STATIONS

CLW

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