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**MONTEREY PENINSULA  
WATER MANAGEMENT DISTRICT**

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September 21, 1998

Gerry Haas  
Operations Manager  
California-American Water Company  
P.O. Box 951  
Monterey, CA 93942-0951

**Subject: Quarterly Water Supply Strategy and Budget – Projected Production Schedule for Seaside Production Wells**

Dear Gerry:

As a follow up to the quarterly water supply budget meeting on September 4, 1998, we have prepared a projected production schedule for the California-American Water Company (Cal-Am) wells in the Seaside Coastal subareas. This schedule is included as **Enclosure 1** for your review. The schedule includes projected monthly production values for the eight active wells, based on the goals developed for the October to December 1998 budget period, and analysis of the actual performance of the wells during 1998.

Development of this schedule responds to the recommendation in the September 1997 *Seaside Coastal Groundwater Subareas Phase III Update* report prepared by Fugro West, Inc., that ground water production needs to be more evenly distributed throughout the coastal subareas to improve management and protection of the resource. Specifically, a portion of the production from the Paralta well, which taps the deeper Santa Margarita aquifer zone, should be spread out by increasing the utilization of other wells that produce primarily from the shallower Paso Robles aquifer zone. The need to modify current production practices is graphically displayed by the ground water level hydrographs from the District's monitor wells in the coastal area of the Seaside basin. Hydrographs for selected nearby dedicated monitor wells are included for your review as **Enclosure 2**. The locations of these monitor well sites are shown on the map in **Enclosure 3**. Please note that since the onset of the Paralta well full-scale operation in April 1995, water levels in the "deep" monitor wells have continued to decline and have not rebounded to near pre-production levels during the seasonal recovery periods. This is particularly evident in the hydrographs of the deep monitor wells in the vicinity of the Paralta well, the FO-07, FO-08 and FO-09 sites, which indicate a continued declining trend in both maximum drawdown and maximum recovery levels during each seasonal pumping cycle. In addition, the hydrographs of the more coastal sites, PCA-West, PCA-East and MSC, indicate chronic water levels below sea level in the deep monitor wells, without periodic recovery to above sea level conditions, as had existed prior to Paralta well operation.

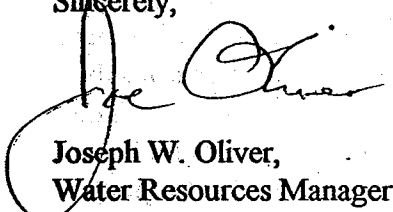
Mr. Gerry Haas  
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Based on our experience and understanding of the hydrogeology of the coastal subareas, the sequence of operation of Cal-Am's Seaside wells, from minimum up to full operation of the well system, should be as follows in order to optimize the distribution of production from existing facilities and reduce excessive drawdowns within the basin:

1. Plumas
2. Darwin
3. LaSalle 2
4. Military
5. Playa 3
6. Luzern
7. Ord Grove 2
8. Paralta

Once you have had the opportunity to review the enclosed information, we would like to schedule a meeting to discuss these considerations, and any other options for additional production system modifications that would help meet the objective of optimizing basin yield while protecting the basin's resources from production-related impacts. In addition, we can discuss plans for the upcoming testing of the Seaside Pilot Injection well this winter. We will be in contact in the near future to schedule such a meeting. In the meantime, if you have any questions, please do not hesitate to call. Thanks for your cooperation.

Sincerely,



Joseph W. Oliver,  
Water Resources Manager

enclosures

cc: D. Fuerst, D. Dettman, MPWMD

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

CALIFORNIA-AMERICAN WATER COMPANY SEASIDE PRODUCTION WELLS  
 PROJECTED MONTHLY PRODUCTION SCHEDULE  
 QUARTERLY WATER SUPPLY STRATEGY AND BUDGET: OCTOBER - DECEMBER 1998

	PRODUCTION WELL								TOTALS
	Darwin	La Salle	Luzern	Military	Ord Grove	Paralta	Playa #3	Plumas	
Estimated Pumping Capacity (GPM)	100	155	600	90	1,550	1,700	360	275	4,830
Theoretical Maximum Monthly Production (AF)	13.7	21.2	82.2	12.3	212.3	232.9	49.3	37.7	661.7
1998 Month of Maximum Production	Jun-98	Jun-98	Jul-98	Jun-98	May-98	Aug-98	Jun-98	Jun-98	
1998 Maximum Month Production (AF)	12.0	19.1	58.5	21.9	206.2	240.6	45.5	30.6	634.4
1998 Maximum Month Pumping Capacity (GPM)	91	144	427	165	1,505	1,756	343	231	4,662
Projected Monthly Production for:									
October 1998 (AF)	12.0	19.1	58.5	21.9	206.2	56.2	45.5	30.6	450.0
November 1998 (AF)	12.0	19.1	58.5	21.9	206.2	56.2	45.5	30.6	450.0
December 1998 (AF)	12.0	19.1	58.5	21.9	112.4	0.0	45.5	30.6	300.0

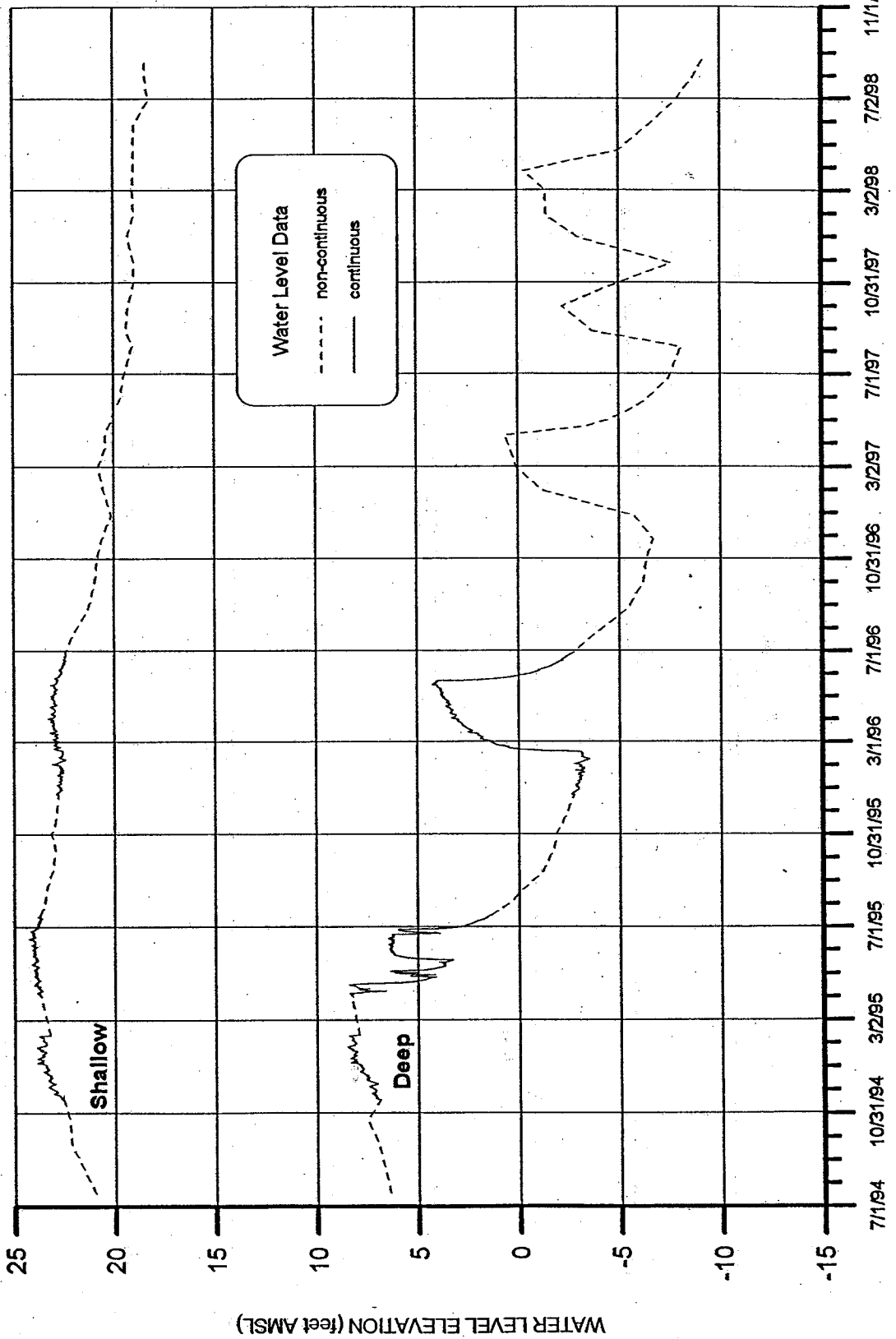
NOTES:

1. GPM = gallons per minute; AF = acre-feet.
2. Estimated Pumping Capacities are as reported by California-American Water Company, Gerry Haas, 10/31/97.
3. Theoretical Maximum Monthly Production values are calculated from the Estimated Pumping Capacities, using a 31-day month.
4. 1998 Production and Pumping Capacity values are shown for comparison.
5. For this analysis, Projected Monthly Production values for each well are based on actual 1998 production data. Total Projected Monthly Production values are from the anticipated values included in the Quarterly Water Supply Strategy and Budget, as discussed at the 9/4/98 meeting.
6. This schedule does not include consideration of SWRCB Order 98-04, which specifies that Cal-Am Seaside production shall be minimized when Carmel River flow exceeds 40 cubic feet per second at the Highway 1 gaging station between November 1 and April 30.
7. This schedule maximizes production from the shallower wells that produce primarily from the Paso Robles Fm. aquifer, and minimizes production from the well that produces significantly from the deeper Santa Margarita Ss. aquifer (i.e., Paralta). In sequence, the Paralta well should be the first well to cut back from full production, which will help to more evenly distribute ground water level drawdowns throughout the basin.

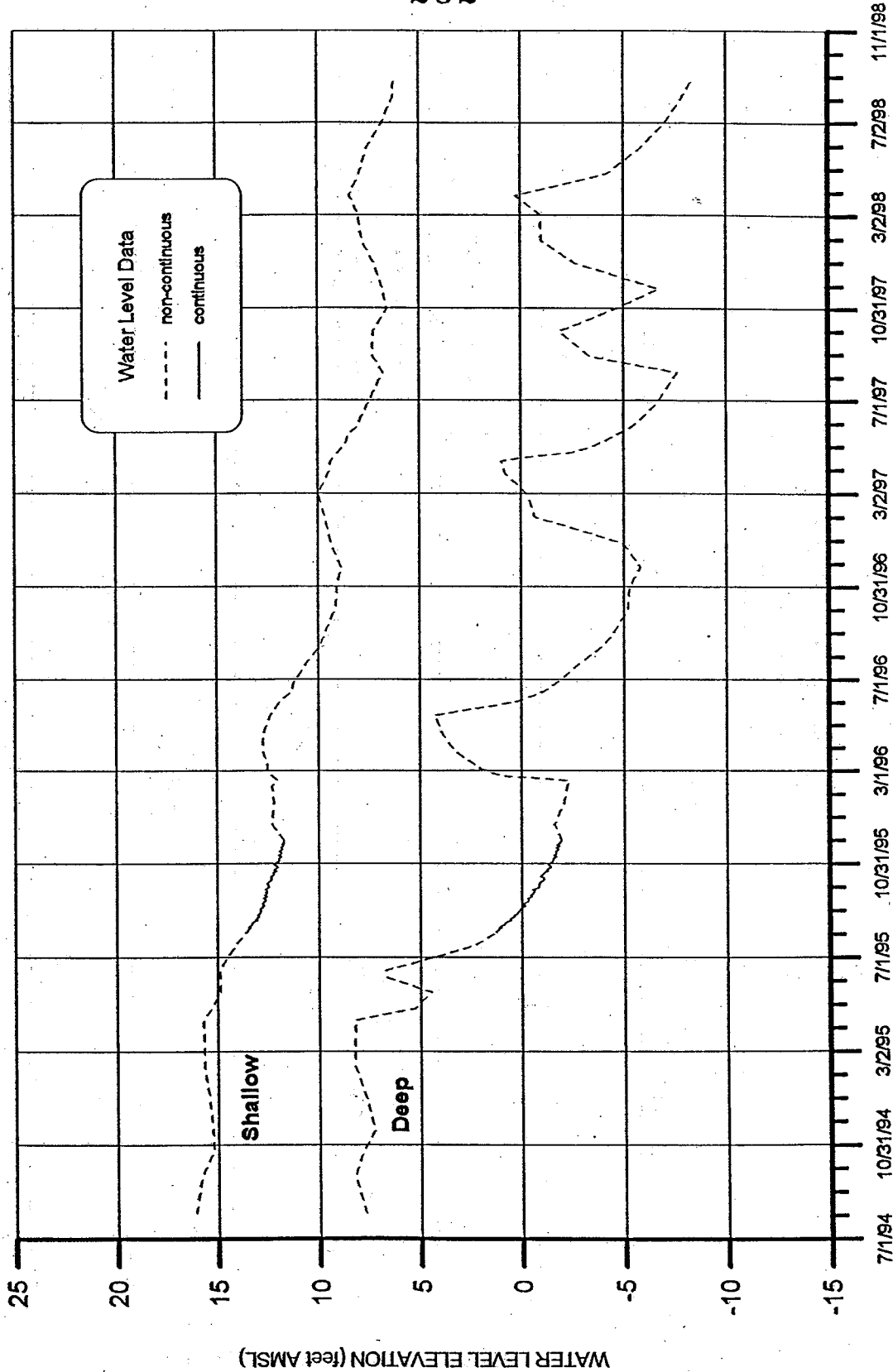
Enclosure 2

**HYDROGRAPHS OF GROUND WATER LEVELS AT  
MPWMD SEASIDE BASIN MONITOR WELLS IN THE VICINITY OF  
THE PARALTA WELL**

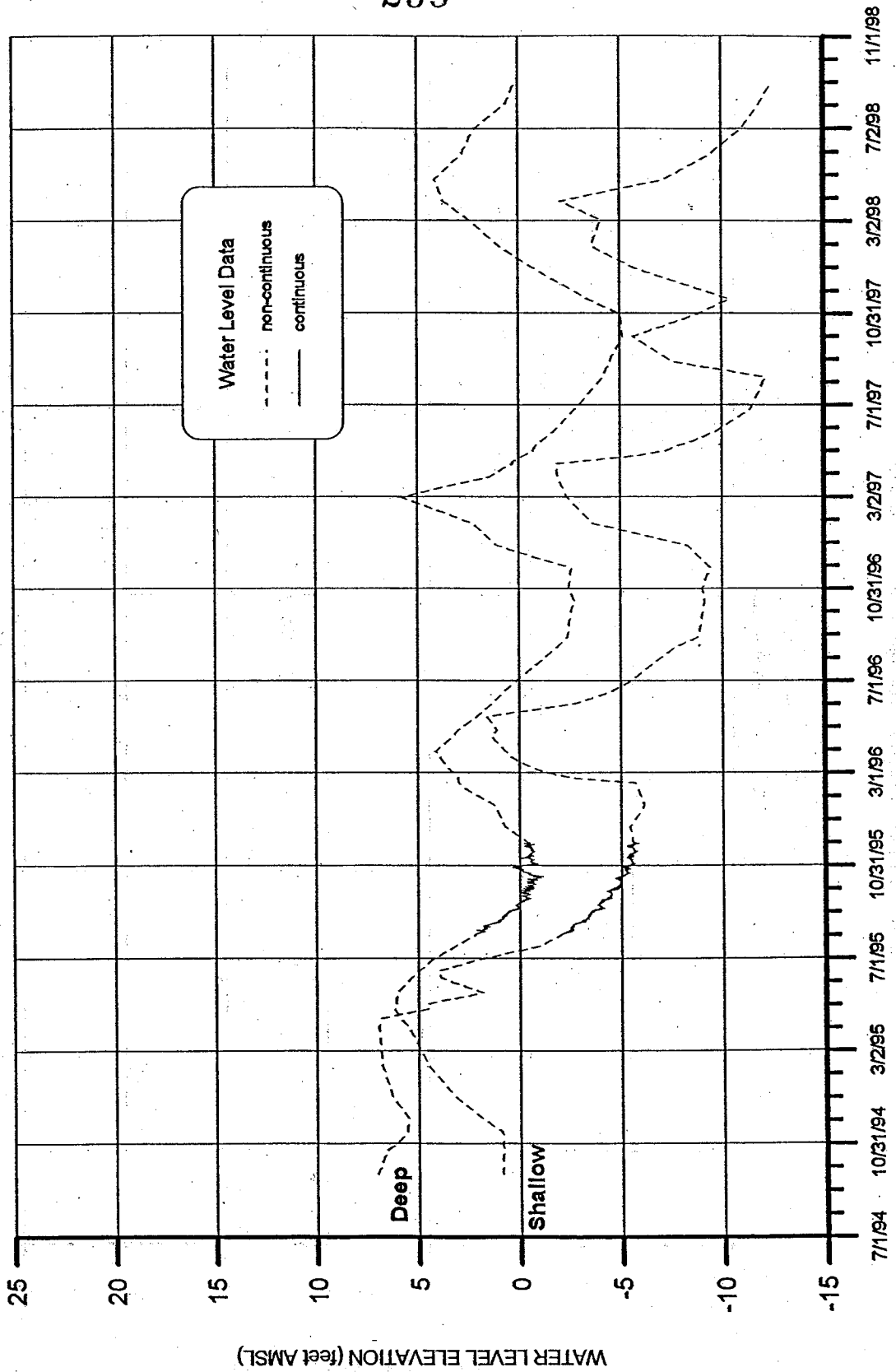
### WATER LEVEL ELEVATION SITE FO-07



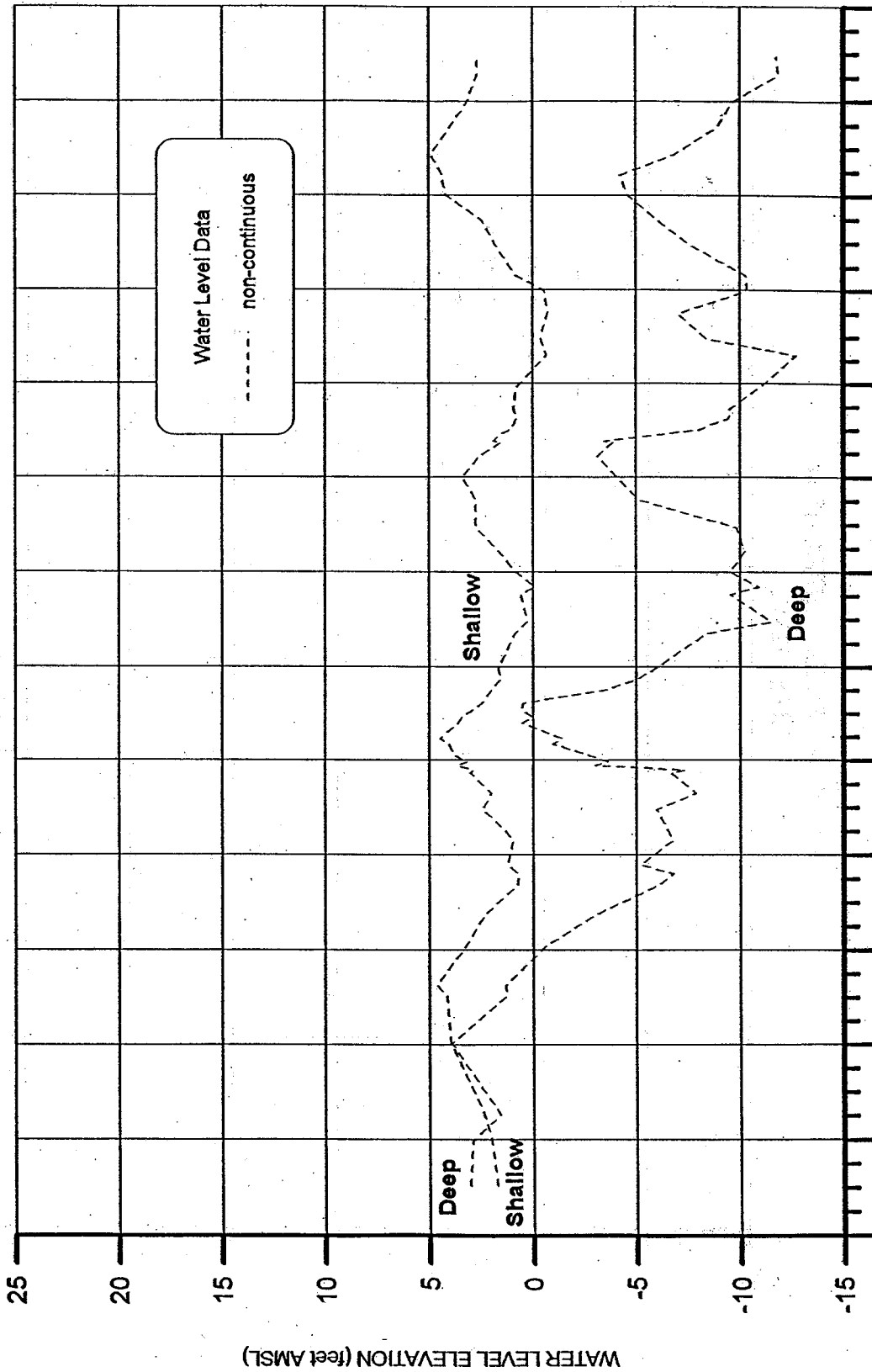
### WATER LEVEL ELEVATION SITE FO-08



**WATER LEVEL ELEVATION  
SITE FO-09**

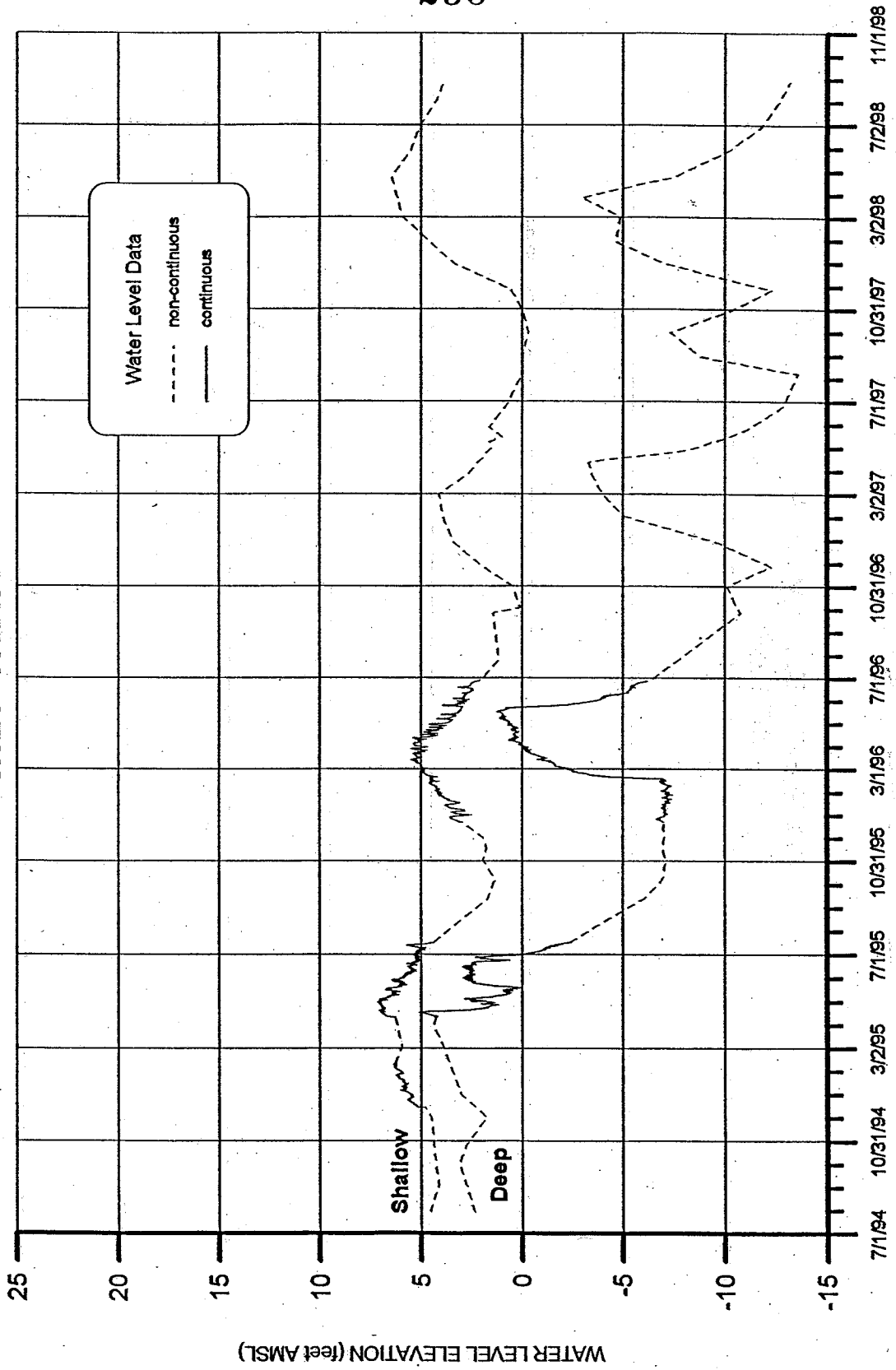


### WATER LEVEL ELEVATION SITE PCA-WEST



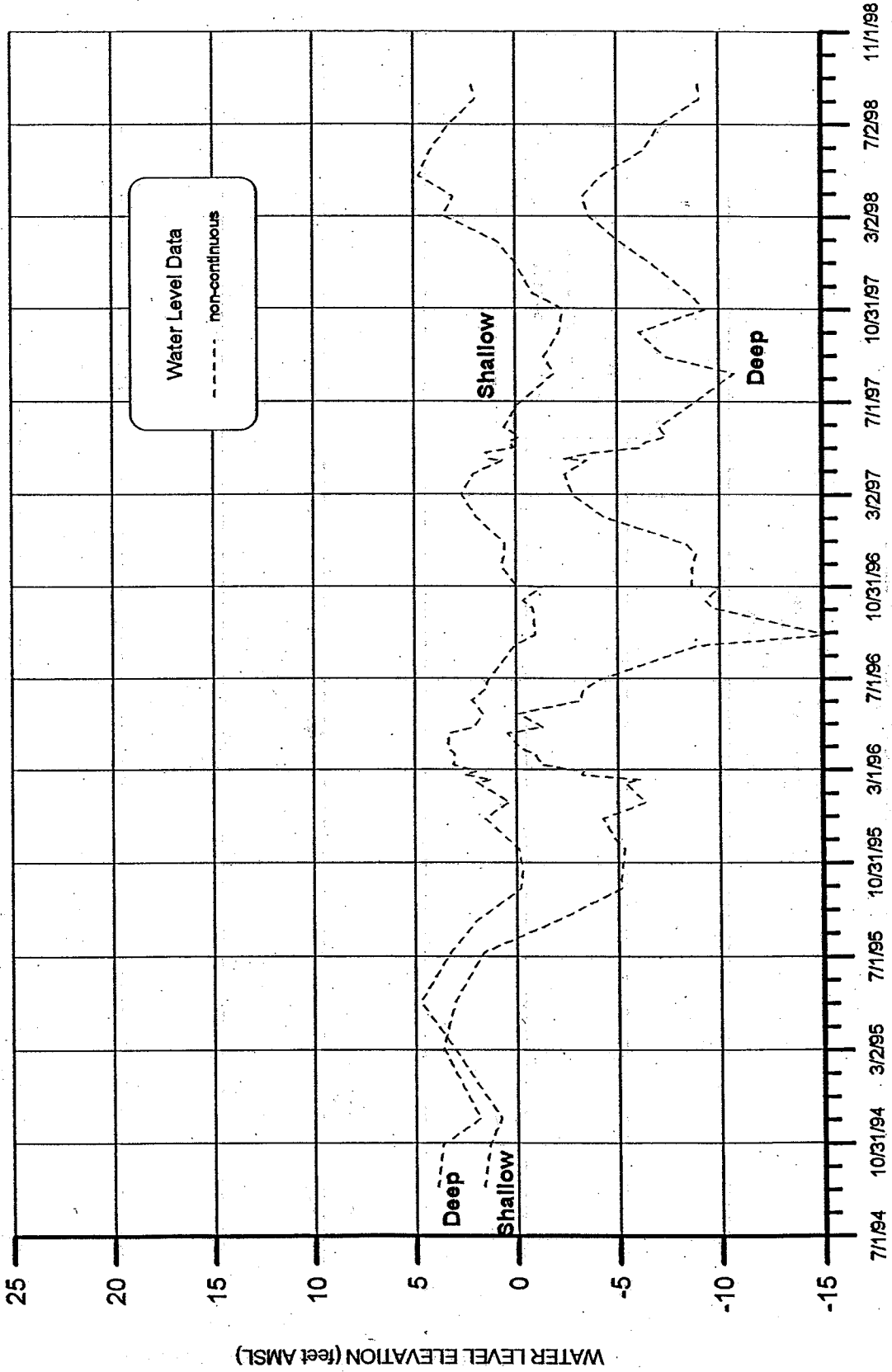


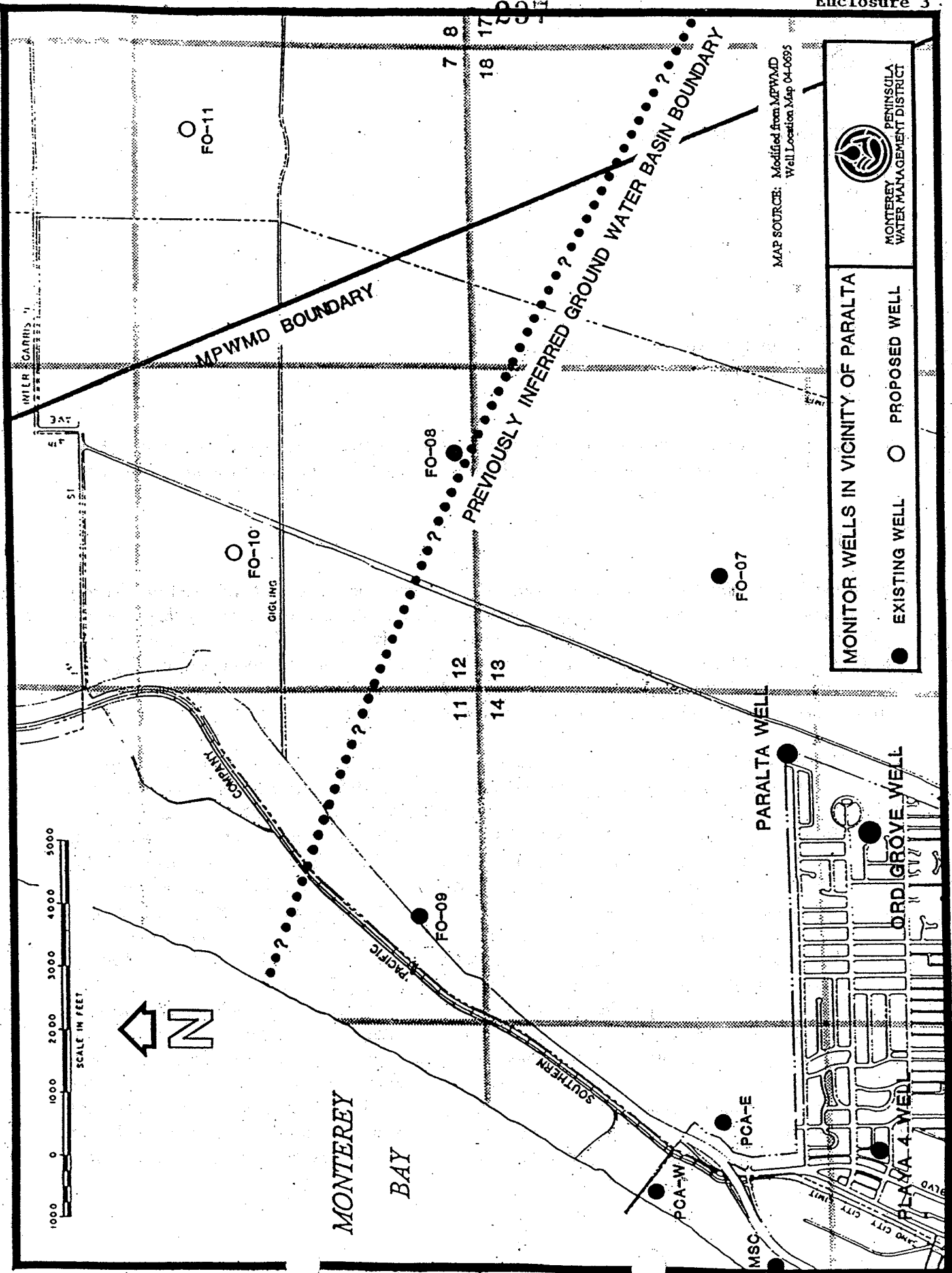
### WATER LEVEL ELEVATION SITE PCA-EAST



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### WATER LEVEL ELEVATION SITE MSC





MONITOR WELLS IN VICINITY OF PARALTA

● EXISTING WELL ○ PROPOSED WELL



MAP SOURCE: Modified from MPWMD Well Location Map 04-0695

