Desalingation Thurs., November 26, 1970 Santa Crite Sentinel -2 Engineer Offers Plan For Study Of Desalting Plant The proposed study of the fea- "Seven potential plant sites 1968-2020". This report presents deserves to be so notified. "Seven potential plant sites 1968-2020". This report presents deserves to be so notified. "Seven potential plant sites 1968-2020". This report presents deserves to be so notified. "Seven potential plant sites 1968-2020". This report presents deserves to be so notified. "Seven potential plant sites 1968-2020". This report presents deserves to be so notified. "Seven potential plant sites 1968-2020". This report presents deserves to be so notified. "Santa Cruz should determine that blending of waters could that blending of waters could the area's total requirements sibility of desalinization of sea are under investigation, all an optimum schedule for de- "If the state decides to con-

nator, on Oct. 7, by Magnus and County. B. Bennedsen, an Orinda engi- "The primary purpose of the for this schedullel with the costs data during this period.

plant for desalting sea water. Plan — Water Development, clearly undesirable, the state want to shut it down when their cannot be economically served Creek. At this stage it appears

Weston Webber, director of the for the plant is near Davenport, ments.

plant will be to develop de- for the schedule in the existing "For this purpose they will native supplies. "I am pleased to submit the ter by the distillation process, eral terms.

potential market for the water plant site decision.

water to meet future needs of along the coast between San veloping the surface water re-struct a desalination plant, their the minimum term for which ed water have experienced seri-Santa Cruz County was put in Francisco and San Diego. One sources of the county according current target date for initial they would be willing contract ous problems due to corrosion perspective in a letter sent to of the sites under consideration to the local growth require-production is 1977, or at the for receiving deslated water. Al- in their distribution systems.

latest, 1978

of Santa Cruz, and Ed Hanna, the water produced will be development schedule based on plant on an experimental basis mum term of operation after the distilled water with other county water projects coordi-available to Santa Cruz City full utilization of desalted water for five to 10 years, collecting receiving notice of intent to dis-waters to achieve a nonand comparing the related costs comprehensive operating cost continue, because it will take corrosive mix.

plant will be to develop de-for the schedule in the existing and quantities of a vailable filtration of that letter tailed cost data for manufactur-plan, the market for deslated water development. This step should define ment. This step should define ing potable water from sea wa- water can be measured in gen- tinuously at full production as 20,000 acre feet per year as blending waters, the probable much of the time as possible the potential market for de-range of satisfactory blends, following proposal to conduct utilizing waste heat from a nu- "The state's present plan is but at this stage of their investi-salted water in Santa cruz and a schefule and costs for a preliminary feasibility study clear-fueled power plant. There to reduce the number of sites gation they cannot predict the County, plus 4,000 acre feet per their development. for determining the general must be a readily available for final investigation to one percentage of time during the year to be delivered to the "The obvious first candidates

so they should be protected with The general method for controll- have) the following objectives: water department of the City and if this site is selected then "By preparing an alternative "They plan to operate the a clause guaranteeing a mini- ing this problem is to blend several years to develop alter- "This study would have to

sea water conversion plant the pricing policies and delivery determine their position on the as the state's present estimates County represents essentially Creeks and Liddell Springs, plus under consideration for con-conditions under which they issue in order that they can indicate, then the plant will be the full growth requirement for the undeveloped resources of limitation. struction in the Davenport area. would agree that there is a appropriately participate in the maintained for many years the northern part of the county, San Vicente, Scott and Waddell after the experimental period. between 1970 and 1990, as pre- Creeks. "If, in fact, such a plant could However, since the estimates sented in the county's master "In order for the state to partment of Water Resources "Reliable answers to these offer inportant economic advan- at this stage are preliminary plan. Although this is certainly operate the desalting plant at and the United States Office questions can be quite readily tages to the area, the opportuni- and therefore not too reliable, satisfactory as a starting point continuous full production a fairof Saline Water are investigat- determined because the county ty for obtaining it should by large storage facility will be state will for the investigation, it should be county to for obtaining it should be cause the county to for obtaining it should be county to for obtaining the county to for obtaining it should be county to for obtaining the county to for obt ing the feasibility of construct had the foresight to prepare not be lost due to ignorance find that the plant is not econo- be reviewed and refined to proing a large scale, prototype their comprehensive "Master and default, whereas if it is mical to operate and they will perly account for the areas that have been located on Baldwin

determine the potential sources

level of interest that the city market for any water produced or two before the end of this year that the plant will operate coastal area of San Mateo Coun- for consideration are the City of Santa Cruz' existing develop- factory blends for determining above analyses, and making aptaining desalted water from a Cruz must now consider are Santa Cruz should act soon to produce water as economically the figure for Santa Cruz must now consider are Santa Cruz should act soon to produce water as economically

"A preliminary study (would at some future time.

of desalted water and the techniques for making desalted operating and maintenance water acceptable for use in a costs associated with the schedmunicipal s y s t e m. Blending ule as presented in the county'ss with local surface waters and master plan for water develop-

and quantities of local surface consideration of this alternative waters available for blending, and estimate the range of satis- summarizing the results of the

quirements will constitute the will be based. potential market for desalted "After the analyses are com-

"The schedule must have considered. three major components:

area's total requirements from proceed with the study and local sources to about 1980.

salted water.

"All facilities should be de-"A. Determine the properties signed and scheduled for most efficient use in all three periods.

"E. Estimate construction. is expected to be satisfactory. the price range for desalted "B Determine the locations water that would justify further

"G. Prepare a brief report

"It is estimated that approxi-"C. Outline the potential ser- mately one month of engineervice area for the desalted-sur- ing effort will be required to face water blend and project complete the analyses and the total requirements schedule write the report. Before starting for the area until about the the analyses a meeting of the local sources developed prior jectives of the study and to to start-up of the desalting agree on the fundamental asplant. The balance of the re-sumptions on which the study

pleted and before the final re-"D. Prepare a preliminary de- port is written, a second meetsign of a system for utilizing ing of the committee would be desalted water, and a develop- in order, to review the results ment schedule for the system and conclusions of the study to satisfy the area's require- and to make sure all necessary points have been adequately

"About 45 days will be re-"1. Facilities to serve the quired between authorization to submittal of the final report. "2. Facilities for utilizing de- I propose to do all of the work for a fee of \$3,000."

