

From: Gene Thorne
Sent: Wednesday, February 21, 2007 3:25 PM
To: 'tlewis5@gmail.com'; Frank Pipgras (frank@lewisipgras.com)
Cc: Peter Thorne
Subject: Plymouth Project Water Supply and some sewer stuff

Tom and Frank:

Attached please find the "Preliminary Engineering Report City of Plymouth Treated Water Pipeline Project" prepared by KASL Consulting Engineers for the City of Plymouth. As I mentioned to Tom yesterday, we spent President's Weekend with Jim Abercrombie and his wife at their place in Bodega Bay. Jim is the District Manager for the Amador Water Agency. Issues of importance are listed below:

Water

- According to Jim, there is now in place a Memorandum of Understanding between the City of Plymouth and the Amador Water Agency.
- The work is scheduled to go out for bid in April and awarded in May for the entire project, i.e. Project Recommendations as shown on page 7-1 of the attached KASL Report. The Amador Water Agency is still working on some easement issues and tightening up some of the financing.
- The study did not include any reference to the proposed Casino. This was specifically at the request of the City of Plymouth to avoid the politics.
- The study identified the 2025 Plymouth demand conditions at 1065 equivalent single family residential (ESFR) water services. There are currently 536 ESFR water services being served by the City of Plymouth. $1065 - 536 = 529$ additional ESFR's total to be supplied by the new 2025 Plymouth plan. According to Jim, they have just received a letter from Kelley Howell (the Plymouth contract planner) identifying a 148 acre project with 136 single family homes, and a 364 acre project with 350 single family homes. $136 + 350 = 486$ new ESFR's required.
- I don't know what the proposed density of the Reeder-Southerland project is, but it appears that the new water project will be eaten up before it is even installed. And then there is the casino.....

According to Jim, the Amador Water Agency has plenty of water rights but has limited transmission and treatment facilities. According to the study, page 2-1, the 7th and 8th bullets of the Summary Findings and Recommendations, a new (parallel or replacement) water main in Segment 4 between Sutter Creek Amador Road and the Amador City Pressure Regulating Station **could be required**, as well as an additional water storage tank along Segment 6.

A review of Table 5-13 shows the residual pressure in Demand Scenario 6 (Max day 2025 + fire flow) does not meet the minimum residual pressure of 20 psi. The third recommendation on page 5-51 indicates 2025 max day flow plus fire flow are met to the end of Segment 5, but not in Segment 6, and further recommends an additional storage tank and that the City should evaluate the adequacy of the 500,000 gallon Plymouth Water Storage when growth, and additional maximum day demands occur. It seems to me that "**could be required**" should be changed to "**should be required**".

The Final Project Recommendations as shown on page 7-1 does identify the need for a second, 1.5 MG capacity water storage tank to connect to Pipeline Segment 6 and/or a new (parallel or replacement) water main in Segment 4. . This solution does not identify how much growth could be handled by these changes, nor does it address additional growth along the segments leading

to Segment 6. If that growth analysis was as blind as the analysis of the City of Plymouth, the problems could be far greater in their scope.

I believe that the current study was either purposely low by design, or done without the awareness of the “baby boomer move to the hills” that we have spoken about in earlier discussions.

Sewer

Peter spoke with Roark Webber earlier today regarding wastewater treatment for the City of Plymouth. He indicated that he does not have a “plan” or documents that describe what is going on with respect to sewer. Roark did not feel that any meeting with him would be helpful at this time. He did indicate, however, that here is going to be a Special Plymouth City Council meeting Wednesday the 28th at 7 p.m. to discuss a feasibility study for water and sewer in Plymouth prepared by Jesse Shaw (Toma and Anderson) for the Reeder-Southerland project. He suggested that we and you should probably attend that meeting as it would be the beginning of the discussion regarding this issue.

Peter will be attending this meeting. I will be out of town until 12 March.

I spoke with Jim on this issue as well. He had heard that the Reeder-Southerland proposal would be primarily self-serving on their part, and that their intent was to simply expand the existing lagoon system. The Amador Water Agency is trying to get Plymouth to look at the bigger picture and recognize expanding the lagoons is more of a band-aid than a proper long term plan.

Please call to discuss should you have questions.

Gene