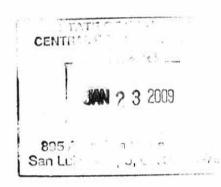
#### REQUEST FOR ACTION REGARDING SEAWATER INTRUSION IN THE LOS OSOS WATER BASIN

TO: Regional Water Quality Control Board 895 Aerovista Place San Luis Obispo, California

> FROM: Frank Ausilio P.O. Box 7072 Los Osos, California 805-528-5679

Frank ausilia



Cc: Other agencies & individuals

## Request for Action Regarding Seawater Intrusion in the Los Osos Water Basin

#### Request for Action

I am requesting that the Regional Water Quality Control Board exercise its full power and jurisdiction to protect the quality of the water in the Los Osos ground water basin from further degradation due to seawater intrusion. This action should be addressed to all water purveyors <u>and</u> well users, include a review of all available data, and utilize further enforcement actions that are available in order to stop seawater intrusion.

#### Introduction

The principal fresh water supply for the Los Osos community is located in the lower aquifer of the Los Osos ground water basin. This basin provides water for the entire community of Los Osos, those served by water purveyors and those served by private and agricultural wells. In the mid-1970s this ground water was recognized as being impacted by high seawater intrusion and nitrate concentrations from overlying land uses. A relatively low percentage of seawater intruding into fresh water (less than 5%) can have a significant adverse impact on the beneficial uses of fresh water. In 1983 the Central Coast Regional Water Quality Control Board (the Board) adopted a prohibition of all new and existing septic system discharges, in an area known as the Los Osos/Baywood Park prohibition zone, in order to deal with the high nitrate concentrations. *The Board did not and has not taken any action regarding seawater intrusion*.

#### Seawater Intrusion

A number of studies and reports have investigated the degree of seawater intrusion into the Los Osos Ground Water Basin and have reached various conclusions. In the 2005 Seawater Intrusion Assessment, Cleath & Associates concluded that "[u]pper aquifer leakage is the primary component of recharge to the lower aquifer" of the Los Osos ground water basin. The Cleath report estimated that the amount of seawater intrusion in the lower aquifer is 560 acre feet per year (AFY). This estimate was based on the average of analytical and model results. (pp. 76-77) In February 2007, the Resource Capacity Study of the Water Supply in the Los Osos Area reported that the water basin is being overdrafted by about 600 AFY from the lower aguifer, causing seawater intrusion. This estimate was originally reported in a 2003 Sea Water Intrusion Assessment completed by the Los Osos Community Services District. (p. 6 of the Resource Capacity Study) The Draft EIR states the current seawater intrusion is 460 AFY and that removing septic leakage from the upper aquifer could increase seawater intrusion by 90 more AFY, to a total of 550 AFY. (p.7-59) Also, in March 2007, the San Luis Obispo County Board of Supervisors certified a Level of Severity III for the water supply in the Los Osos area, due to seawater intrusion caused by overdraft of the water basin. Whatever the actual number, the fresh water supply in Los Osos is shrinking, and we are overdrafting an increasing percentage of this fresh water supply every year, thereby degrading the water supply in the Los Osos water basin.

Correct data regarding groundwater production is elusive, as various reports use

different figures. According to Appendix D of the Draft EIR, recent groundwater production estimates indicate that private domestic wells pump 80 AFY and agricultural and domestic wells within the Los Osos Creek valley pump 870 AFY. (p. 5.2-11) A Hydrogeology and Water Resources Report prepared in 1988 indicated that private domestic wells pumped 210 AFY in 1986 and agricultural pumpage was 970 AFY in 1986. (p. 31) The Sea Water Intrusion Assessment by Cleath & Associates from 2005 indicated that private domestic wells pumped an average of 200 AFY from 1985-2001 and agricultural pumpage averaged 950 AFY. The 950 AFY figure includes 70 AFY at Sea Pines Golf Course. (Table 2, p. 14) It would seem that the Draft EIR has underestimated the production of private and agricultural wells. Additionally, since these data were compiled, additional development in the water basin has increased the AFY pumped by private domestic and agricultural wells. Although these well users are drawing fresh water from the basin, they have not been included in any action or solution regarding seawater intrusion.

#### **Effluent**

"How the LOWWP [Los Osos Waste Water Project] disposes and/or reuses the treated effluent is a key issue that will determine how well the LOWWP meets the project goals and objectives. No single effluent disposal or reuse option has sufficient capacity to dispose of all the project effluent and mitigate the potential project impact on seawater intrusion." (Draft EIR p. 7-57) The plan is to dispose about 1/3 of the secondary-treated effluent (448 AFY) in a leachfield on the Broderson property which will recharge the upper aquifer to the same level as the current effluent from septic systems. The plan for the other 2/3 of the treated effluent (842 AFY at buildout) is to spray it on fields near the treatment facility. Disposal of the effluent when the leachfield is being maintained and/or repaired is not clear in the Draft EIR. Also, the effect of temporary suspension of the effluent at the leachfield on seawater intrusion is not addressed.

The Draft EIR states, "If 448 AFY is discharged to the Broderson leachfield, the resulting seawater intrusion benefit would be 100 AFY." (p.7-60) The Detailed Proposed Project Descriptions portion of the Draft EIR states, "Groundwater modeling analysis has indicated that discharging 448 AFY through the Broderson leachfield could reduce seawater intrusion by 187 AFY." (p. 3-45) Table 7-8 indicates that seawater intrusion mitigation at the Broderson leachfield would be 99 AFY. (p. 7-60) The Hopkins Report, included in Appendix D of the Draft EIR, stated, "With the initial proposed capacity it is anticipated that at least 100 AFY will percolate through the regional aquitard into the lower aquifer system. The remaining 348 AFY will be a component of annual recharge to the upper aquifer system." (Appendix D, Preliminary Hydrogeological Impacts Study, p. 33) The discrepancy between the various figures is not explained, nor does the Draft EIR address the increasing nature of the seawater intrusion due to continuing overdraft.

The remainder of the treated effluent will be sprayed on fields near the treatment facility. The Draft EIR states, "... sprayfields are the only effluent disposal option that could handle the entire 1290 AFY of effluent. The Tonini sprayfield site...has a preliminary estimated capacity of more than 1150 AFY.... The disadvantage to sprayfields is that they

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do not provide any seawater intrusion mitigation benefits." (p. 7-63)

#### Conservation

Regarding seawater intrusion, the Draft EIR states, "Another important consideration of the Project involves water resource issues related to seawater intrusion that is contaminating the Los Osos groundwater basin. While the purpose of the LOWWP is to develop a community wastewater system, implementation measures for effluent disposal can enhance opportunities for the water purveyors to improve the local water resources." (p.1-10) It seems the county is planning to leave the improvement of local water resources to the water purveyors. The Draft EIR discusses conservation measures that may be taken to reduce water consumption by 10% per capita over the 2006 average daily per capita wastewater generation rate. (p. 3-42) These measures are expected to conserve 160 AFY by the year 2020. In another location in the report, the reduction in per capita water demand is stated as 12% over the 2006 rate. (p. 7-58) The discrepancy in these conservation rates is not explained.

The Draft EIR also states that the Los Osos Wastewater Project will institute additional water conservation measures as needed to achieve the 10% goal. (pp. 2-13 & 3-42) According to the Draft EIR, these measures will apply only in the Prohibition Zone. In contrast to the Draft EIR, the Resource Capacity Study recommended the adoption of "an ordinance to institute water conservation requirements for parcels outside of water purveyor service areas that mirror the efforts undertaken by purveyors within their service areas." (p. 3) It is unclear if these measures will be implemented, as they are only recommendations to the Board of Supervisors. In a "Report Back on the Resource Capacity Study for the Los Osos Water Supply, it was stated, "Lastly, no solution to these issues [seawater intrusion issues] can be pursued without consideration of the wastewater treatment project. The information needs of both overlap and can inform each other." (p.2) There is a difference of opinion among county departments regarding the county's authority and the scope of the LOWWP to stop the overdraft that is causing seawater intrusion.

On 2/13/04 the Los Osos Community Services District filed a complaint in Superior Court against Golden State Water Company, S&T Mutual Water Company, the County of San Luis, Sea Pines Golf Course, and unnamed Does (private domestic and agricultural well users) regarding the relative rights of the parties to use water resources from the Los Osos Water Basin. An Interlocutory Stipulated Judgment among the parties, in which they agreed to participate and cooperate in developing a plan for resource preservation and management within the basin, was filed on 8/5/08. This agreement did not include the well users, although the well users pump 1/3 (33%) of the total AFY pumped out of the basin. (Cleath, p.14) As of 9/24/07, there were 350 private domestic and agricultural wells in the water basin. (C. Rattigan, Public Health Department, email) Per an 8/31/07 email from Paul Sittig, Department of Planning & Building, additional wells may be added within the basin. In order for the Basin Plan to be effective, all water users need to participate in the plans and solutions.

1/23/2009

#### Request for Action

The result of this continuing delay in dealing with the issue of seawater intrusion in the Los Osos ground water basin is the increasing loss of available fresh water for the community. To reiterate, I am requesting that the Regional Water Quality Control Board exercise its full power and jurisdiction to protect the quality of the water in the Los Osos ground water basin from further degradation due to seawater intrusion. This action should be addressed to all water purveyors **and** well users, include a review of all available data, and utilize further enforcement actions that are available in order to stop seawater intrusion.

#### Attachments

Exhibit A - Email from C. Rattigan

Exhibit B - Email from P. Sittig

Exhibit C - LOCSD Water Data

Exhibit D - Memo to M. Zimmer

Exhibit E - Index of /central coast water issues/programs/los\_osos/docs

#### Disk 1:

Draft EIR County of San Luis Obispo Los Osos Wastewater Project

#### Disk 2:

Hydrogeology and Water Resources of the Los Osos Valley Ground-Water Basin - U.S. Geological Survey

Interlocutory Stipulated Judgment 9/5/08

Resource Capacity Study for Los Osos Water Supply 3/27/07

Report Back on the Resource Capacity Study for Los Osos Water supply 7/24/07

Sea Water Intrusion Assessment and Lower Aquifer Source Investigation of the Los Osos Valley Ground Water Basin (Cleath & Associates 2005)

5

Subj:

Fw: Approx. number of wells in Los Osos

Date:

9/24/07 4:15:20 PM Pacific Daylight Time

From:

crattigan@co.slo.ca.us

To:

fiaunion@aol.com Sent from the Internet (Details)

By the way the records started showing up in our database in the early 1960's but there are very few records until the early 1970's.

..... Forwarded by Cindy Rattigan/PH/COSLO on 09/24/2007 04:14 PM -----Cindy

Cindy Rattigan/PH/COSLO

To fjaunion@aol.com

09/24/2007 04:07 PM

Subject Approx. number of wells in Los Osos

I went ahead and ran two reports. One out of our current database, then one out of our older database. I then deleted any duplicate records that I could visibly find, and the temporary monitoring wells.

The number I came up with of domestic water wells is: 350. This will include irrigation, livestock, ag, etc... but not temporary monitoring wells.

I hope this helps.

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## Exhibit B

Subi:

Potential for Additional Wells in Los Osos

Date:

8/31/07 9:59:29 AM Pacific Daylight Time

From:

psittig@co.slo.ca.us

To:

fjaunion@aol.com Sent from the Internet (Details)

Hello Frank.

We talked at the front counter yesterday, August 30th, about the possibility of adding personal wells within Los Osos. I first told you that the limit would be for properties of at least 2.5 acres in the Residential Suburban land use category (Coastal Zone Land Use Ordinance 23.04.027b).

After you had left, I talked with another planner who works primarily in the Coastal Zone of the County, and she told me of the section in Title 19 (Building and Construction ordinance for the County) that prohibits wells to be used for Single Family Dwellings within the service boundary of a community water system (19.20.236b). There is a small area of Residential Suburban beyond the Urban Reserve Line, which might be the limit to the community water systems of Los Osos (but I don't know the water purveyors limits, you should ask them for maps). To the north of Los Osos Valley Road, there are 9 parcels larger than 2.5 acres, accessed from the end of Lariat and Sombrero Drives. The 1 acre parcels in front would be too small to have both on-site septic and on-site wells, unless there was some agreement or tests to say otherwise.

There is section of 7 Residential Rural lots, ranging from 4.5 to 5.5 acres in size, just south of LOVR and to the west of Clark Valley Road, and an additional 4 lots that are each just over 1 acre in size. There is nothing in the CZLUO that defines the lot size requirement for Residential Rural lots in relation to any onsite wells and septic systems, but I believe that the actual size limit is 5 acres, so many of these parcels would seem to be nonconforming. It appears that the rest of the land adjacent to Los Osos is defined as Agriculture or Open Space, with some Public Facility lots here and there.

If you'd still like the pictures, I'll work on compiling them for you by Monday.

Thanks, and have a good weekend -Paul Sittig Planner - Coastal Team

County of San Luis Obispo Department of Planning & Building 976 Osos Street, Room 300 San Luis Obispo, CA 93408 (805) 781-4374 psittig@co.slo.ca.us

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FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           3291         33.4399         33.0928         28.530           7755         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           9962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           4998         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           5201         15.9176         15.0925         13.787           2248         17.3015         21.5073         22.158           5486         14.5826         25.5281         19.240           5309         27.7037         30.0541         27.176           3309         27.7037         30.0541         27.176           5309         27.7037         30.0541         27.176           3309         27.703         264.026           5127,895.75         \$89,829.09         \$127,895.75           5840         \$103,887.75         \$89,829.09         \$127,895.75	(	\$175,420.26	\$132,826.00	\$135,261.27	\$141,119.85	Oct
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           5291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           0962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           4998         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           5248         17.3015         21.5073         22.158           5486         14.5826         25.5281         19.574           3309         27.7037         30.0541         27.176           3309         27.7037         30.0541         27.176           5486         14.5826         25.5281         19.574           3309         27.7037         30.0541         27.176           3486         19.240         27.176         264.026           5486         14.5826         25.5281         19.574           3480         28.9106         28.9106         28.026	1H	\$135,457.67	\$101,709.12	\$101,881.61	\$93,618.40	Sep
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           5291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           0962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           4998         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           3201         15.9176         15.0925         13.787           2248         17.3015         21.5073         22.158           3309         27.7037         30.0541         27.176           9166         288.9106         290.0915         264.026           FY 05-06         FY 06-07         FY 07-08           FY 05-08         FY 07-08         \$127,895.7:	10134	\$189,818.01	\$135,105.35	\$137,129.15	\$147,713.60	Aug
FY 05-06 FY 06-07 FY 07-08 3195 40.5430 21.6037 21.515 5291 33.4399 33.0928 28.530 7755 24.4971 24.6219 22.073 7755 32.9448 32.1841 28.899 0962 20.7438 21.3309 20.721 7554 25.2537 27.3160 25.702 4998 14.8606 15.7443 14.646 2610 21.1223 22.0158 19.240 5201 15.9176 15.0925 13.787 5248 17.3015 21.5073 22.158 5486 14.5826 25.5281 19.574 3309 27.7037 30.0541 27.176 9166 288.9106 290.0915 264.026  Water Revenue Data FY 05-06 FY 06-07 FY 07-08	100000	\$127,895.73	\$89,829.09	\$103,887.75	\$83,081.24	Jul
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           5291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           9962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           1998         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           3201         15.9176         15.0925         13.787           2486         14.5826         25.5281         19.574           3309         27.7037         30.0541         27.176           309         27.7037         30.0541         27.176           3166         288.9106         290.0915         264.026	1875,200		FY 06-07	FY 05-06	FY 04-05	Month
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           3291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           982         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           4998         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           3201         15.9176         15.0925         13.787           2248         17.3015         21.5073         22.158           2248         17.3015         21.5073         22.158           309         27.7037         30.0541         27.176           309         27.7037         30.0541         27.176           3166         288.9106         290.0915         264.026	1 Come 1377	· ·	ផ	ater Revenue Da	W	
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           3291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           4998         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           3201         15.9176         15.0925         13.787           2248         17.3015         21.5073         22.158           3486         14.5826         25.5281         19.574           3309         27.7037         30.0541         27.176	1.40.445. V82.2	264.0266	290.0915	288.9106	297.9166	TOTALS
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           5291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           9962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           7598         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           3201         15.9176         15.0925         13.787           2248         17.3015         21.5073         22.158           486         14.5826         25.5281         19.574	アたこ	27.1762	30.0541	27.7037	31.6309	Jun
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           3291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           7554         25.2537         27.3160         14.646           7698         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           2611         15.9176         15.0925         13.787           2248         17.3015         21.5073         22.158	1.	19.5740	25.5281	14.5826	17.5486	May
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.515           3291         33.4399         33.0928         28.530           5557         24.4971         24.6219         22.073           7755         32.9448         32.1841         28.899           9962         20.7438         21.3309         20.721           7554         25.2537         27.3160         25.702           4998         14.8606         15.7443         14.646           2610         21.1223         22.0158         19.240           3201         15.9176         15.0925         13.787		22.1587	21.5073	17.3015	18.2248	Apr
FY 05-06         FY 06-07         FY 07-08           3195         40.5430         21.6037         21.5157           3291         33.4399         33.0928         28.5309           5557         24.4971         24.6219         22.0733           7755         32.9448         32.1841         28.8990           962         20.7438         21.3309         20.7211           7554         25.2537         27.3160         25.7029           1998         14.8606         15.7443         14.6467           2610         21.1223         22.0158         19.2402	CSV	13.7879	15.0925	15.9176	14.6201	Mar
FY 05-06 FY 06-07 FY 3195 40.5430 21.6037 3291 33.4399 33.0928 5557 24.4971 24.6219 7755 32.9448 32.1841 9962 20.7438 21.3309 14.8606 15.7443	3	19.2402	22.0158	21.1223	20.2610	Feb
FY 05-06 FY 06-07 FY 3195 40.5430 21.6037 3291 33.4399 33.0928 5557 24.4971 24.6219 7755 32.9448 32.1841 962 20.7438 21.3309 7554 25.2537 27.3160		14.6467	15.7443	14.8606	15.4998	Jan
FY 05-06 FY 06-07 FY 3195 40.5430 21.6037 3291 33.4399 33.0928 5557 24.4971 24.6219 7755 32.9448 32.1841 962 20.7438 21.3309		25.7029	27.3160	25.2537	21.7554	Dec
FY 05-06 FY 06-07 FY 3195 40.5430 21.6037 3291 33.4399 33.0928 5557 24.4971 24.6219 7755 32.9448 32.1841		20.7211	21.3309	20.7438	21.0962	Nov
FY 05-06 FY 06-07 FY 3195 40.5430 21.6037 3291 33.4399 33.0928 5557 24.4971 24.6219		28.8990	32.1841	32.9448	36.7755	Oct
FY 05-06 FY 06-07 FY 3195 40.5430 21.6037 S291 33.4399 33.0928		22.0733	24.6219	24.4971	33.5557	Sep
FY 05-06 FY 06-07 FY 03195 40.5430 21.6037		28.5309	33.0928	33.4399	38.6291	Aug
FY 05-06 FY 06-07		21.5157	21.6037	40.5430	28.3195	Jul
Conge Pass III Initial Califolia		FY 07-08	FY 06-07	FY 05-06	FY 04-05	
Water Usage Data in Million Gallons			n Gallons	age Data in Millio	Water Us	

\*Consumption is billed for a two month period - every month. Every month, half of the service area is billed. Meters are read on or about the 10th of each month.

Revenue is based on gallons billed and unpaid balances forwarded - not cash received.

Exhibit D

#### **MEMO**

TO:

Mark Zimmer

DATE: 01/02/09

Operations Superintendent

Golden State Water Company

FROM:

Frank Ausilio

764 Highland Dr.

Los Osos, CA 93402

Frank Ountra

I am writing per your request that I put my previous verbal request in writing.

I am requesting information regarding the number of gallons of water, or the number of acre feet of water, that Golden State billed to Los Osos customers for the years 2005 through 2008.

This information will be used for my response to the Draft Environmental Impact Report for the Los Osos Wastewater Project and for public comment to the Regional Water Quality Control Board.

Thank you for your assistance.

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- 2006 06 task3.pdf
- draft res 83 12 001.pdf