Phelan Piñon Hills Community Services District
Feasibility Study

July 18, 2006

Presented to:

San Bernardino County
Local Agency Formation Commission

By

Phelan Piñon Hills CSD Feasibility Committee

Charlie Johnson, Chair
Mike Adams, Vice Chair
Jon Perry, Secretary
Ken Anderson, Treasurer
Joe Fahrlander, Member
Al Morrissette, Member
Dave Roberts, Member

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JUSTIFICATION FOR PROPOSAL AND PRELIMINARY ENVIRONMENTAL DESCRIPTION FORM

INTRODUCTION: The questions on this form and its supplements are designed to obtain enough data about the proposed project site to allow the Commission, its staff and others to adequately assess the project. By taking time to fully respond to the questions on the forms, you can reduce the processing time for your project. You may also include any additional information, which you believe is pertinent. Use additional sheets where necessary, or attach any relevant documents.

GENERAL INFORMATION

1. NAME OF PROPOSAL: Phelan Piñon Hills Community Services District

2. NAME OF APPLICANT: Charlie Johnson, Committee Chair

   MAILING ADDRESS: 11433 Buttemer Road

   Phelan, CA 92371

   PHONE: (760) 868-2080
   FAX: (760) 868-5281
   EMAIL ADDRESS: Charlie@CNJohnson.com

3. GENERAL LOCATION OF PROPOSAL: The subject area is located on the western boundary of San Bernardino County north of the Angeles National Forest boundary and south of the community of El Mirage. Please refer to the map on page 15.

4. Does the application possess 100% written consent of each landowner in the subject territory? YES___NO_X_If YES, please provide a written authorization for change.

5. Indicate the reasons that the proposed action has been requested. The residents of the communities of Phelan and Piñon Hills have expressed the desire for local control and input into the decision making process for the delivery of services of water, park and recreation, and street lighting.

6. Would the proposal create a totally or substantially surrounded island of unincorporated territory? YES___NO_X_If YES, please provide a written justification for the proposed boundary configuration.

LAND USE AND DEVELOPMENT POTENTIAL

1. Total land area (defined in acres):

   Approximately 81,920 acres (128 square miles, plus or minus).

2. Current dwelling units in area:

   Approximately 6,500 dwellings.

3. Approximate current population in area:

   Approximately 25,000. There are 7,083 registered votes according to the Registrar of Voters.

4. Indicate the General Plan designation(s) of the affected city (if any) and uses permitted by this designation(s):

   The area is unincorporated.

   San Bernardino County General Plan designation(s) and uses permitted by this designation(s):

   The primary land use is Rural Living with a variety of other uses, such as Commercial in the center of the community. Please refer to the Phelan Area Community Plan, page 17.

5. Describe any special land use concerns expressed in the above plans.

   None.

6. Indicate the existing land use.

   The primary land use is Rural Living with a variety of other uses, such as Commercial in the center of the community. Please refer to the Phelan Area Community Plan, page 17.

7. For a city annexation, State law requires pre-zoning of the territory proposed for annexation. Provide a response to the following:

   a. Has pre-zoning been completed? YES___NO___.
   b. If the response to "a" is NO, is the area in the process of pre-zoning? YES___NO___.

   Identify below the pre-zoning classification, title, and densities permitted. If the pre-zoning process is underway, identify the timing for completion of the process.

   This is not a proposal for annexation.

8. On the following list, indicate if any portion of the territory contains the following by placing a checkmark next to the item:

   ☑ Agricultural Land Uses ☐ Agricultural Preserve Designation
   ☐ Williamson Act Contract ☐ Area where Special Permits are required
   ☐ Any other unusual features of the area or permits required:
   None.

9. If a Williamson Act Contract(s) exists within the area proposed for annexation to a City, please provide a copy of the original contract, the notice of the non-renewal (if appropriate) and any protest to the contact filed with the County by the City. Please provide an outline of the City's anticipated actions with regard to this contract.

   Not applicable.

10. Will the proposal require public services from any agency or district, which is currently operating at or near capacity (including sewer, water, police, fire, or schools)? YES___NO X If YES, please explain.

   _____

ENVIRONMENTAL INFORMATION

1. Provide general description of topography. The area consists of foothills and is primarily flat desert sloping down to the north.

2. Describe any existing improvements of the site as % of total area.

   Residential _____% Agricultural_____%

   Commercial_____% Vacant _____%

   Industrial _____% Other _____%

   Please refer to the Phelan Community Plan, page 17.

3. Describe the surrounding land uses:

   NORTH Rural living – unincorporated community of El Mirage.

   EAST Rural living – unincorporated areas within the Victorville and Hesperia spheres of influence

   SOUTH Angeles National Forest

   WEST Rural living – unincorporated portion of Los Angeles County

4. Describe site alterations that will be produced by improvement projects with this proposed action (installation of water facilities, sewer facilities, grading, flow channelization, etc.)

   There will be no site alterations with this proposed action. The water services currently being provided will continue to be maintained and improved.

5. Will service extensions accomplished by this proposal induce growth of this site? YES___NO_X_Adjacent sites? YES___NO_X_Unincorporated____. Incorporated____.

   This proposal does not include any service extensions.

6. Is this project a part of a larger project or series of projects? YES___NO_X_If YES, please explain.

NOTICES

Please provide the names and addresses of persons who are to be furnished mailed notice of the hearing(s) and receive copies of the agenda and staff report.

NAME Charles Johnson TELEPHONE NO. 760-868-2080

ADDRESS 11433 Buttemer Road Phelan, CA 92371

NAME Mike Adams TELEPHONE NO. 760-868-3821

ADDRESS Post Office Box 720133 Piñon Hills, CA 92372-0133

NAME Al Morrissette TELEPHONE NO. 760-792-0302

ADDRESS Post Office Box 720434 Piñon Hills, CA 92372-0434

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CERTIFICATION

I hereby certify that the statements furnished above and in the attached supplements and exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented herein are true and correct to the best of my knowledge and belief. I understand that if this proposal is approved, the Commission will impose a condition requiring the applicant to indemnify, hold harmless, and reimburse the Commission for all legal actions that might be initiated as a result of that approval.

DATE July 10, 2006

SIGNATURE OF APPLICANT

Charles N. Johnson
PRINTED NAME OF APPLICANT

Committee Chair
TITLE

PLEASE CHECK SUPPLEMENTAL FORMS ATTACHED:

- ☐ ANNEXATION, DETACHMENT, REORGANIZATION SUPPLEMENT
- ☐ SPHERE OF INFLUENCE CHANGE SUPPLEMENT
- ☐ CITY INCORPORATION SUPPLEMENT
- ☑ FORMATION OF A SPECIAL DISTRICT SUPPLEMENT
- ☐ ACTIVATION OF LATENT POWERS SUPPLEMENT

APPLICATION TO BE SUBMITTED TO:

LOCAL AGENCY FORMATION COMMISSION
215 North D Street, Suite 204
San Bernardino, CA 92415-0490
PHONE: 909-383-9900 ● FAX 909-383-9901
E-mail address: lafco@lafco.sbcounty.gov

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SUPPLEMENT
FORMATION OF A SPECIAL DISTRICT

INTRODUCTION: The questions on this form are designed to obtain data about the specific district formation proposal to allow the Commission, staff, and others to adequately assess the project. You may also include any additional information, which you believe in pertinent. Use additional sheets where necessary, and/or include any relevant documents.

1. Please identify the agencies involved in the proposal by proposed action:

AGENCIES TO BE DISSOLVED	AGENCIES TO BE DETACHED
County Service Area 9	
County Service Area 70 Zone L	
County Service Area 70 Zone L-1	
County Service Area 70 Zone G	

AGENCIES CHANGED	CHANGE TO AGENCY
County Service Area 56 Zone F-1	Remove Park/Recreation powers

2. Under what principal act will the district be formed?

   California Government Code 61000 et seq. and 56000 et seq.

3. Provide a listing of the services and functions to be provided by the new agency.

   The new district will provide water, park and recreation, and street lighting services.

4. Will the territory be relieved of any existing special taxes, assessments, district charges, or fees required by the agencies to be detached?

   No

5. If the district proposed to be formed is a single-purpose entity (such as fire protection district, or a water district formed only to provide water), provide an identification of other multiple purpose districts within the area and a description as to why a single entity is the preferred choice.

   This proposed district is not a single purpose district.

PLAN FOR SERVICES – WATER

For each item identified for a change in service provider, a narrative "Plan for Service" (required by Government Code Section 56653) will be required. This plan shall, at a minimum, respond to each of the following questions and be signed by the proponents of the change.

1. A description of the level and range of each service to be provided to the territory through the formation process.

   Water service is proposed for the Community Services District. The committee plans to provide for the same level of service that is currently being provided by CSA 70 L, and continue with the capital improvements as outlined in the 2000 Urban Water Management Plan as adopted by the San Bernardino County Board of Supervisors on January 29, 2002.

2. An indication of when the service can be feasibly extended to the territory.

   Water service within the district is extended to properties in one of two ways: One, by a private main line extension, done as a property, or properties are improved; Two, by a planned extension of lines by the district, generally funded by the formation of an assessment district. The existing system was built in five phases.

3. An identification of any improvement or upgrading of structures, roads, water or sewer facilities, other infrastructure, or other conditions the new district would need to impose upon the territory.

   There are no plans for upgrading of infrastructure in the area other than the planned improvements in the Urban Water Management Plan.

4. The estimated cost of extending the service and a description of how the service or required improvements will be financed. A discussion about the sufficiency of revenues to fund the anticipated service is also required.

   The committee requested pertinent financial data regarding the Capital Improvement budgets from Special Districts in order to plan for the continued development in the district. Special Districts did not provide any financial data regarding the Capital Improvement budgets. Therefore, the committee has to rely on past practices of the district that show that needed improvements have been funded from revenues generated by the district.

5. An indication of whether the territory is or will be proposed for inclusion within a proposed improvement zone/district, assessment district, or community facilities district.

The territory is not part of a proposed improvement zone, assessment district or community facilities district. There are existing assessment districts within the territory. These assessment districts will continue until paid in full. Special Districts has not provided the timelines for the payoff to the committee at the time of this application.

6. If retail water service is to be provided through this change, provide a description of the timely availability of water for projected needs within the area based upon factors identified in Government Code Section 65352.5 (as required by Government Code Section 56668(k)).

   Retail water service is currently provided to much of the area through County Service Area 70, Improvement Zone L. As discussed above, it has been the practice of Zone L to extend services on an as needed basis, either through a main-line extension done as a property or properties are improved or by planned extension of lines by the district, generally funded by the formation of an assessment district.

7. Copies of the feasibility study for the formation of the District. The feasibility study must outline the anticipated structure of the governing body and provide a projected three-year budget for revenues and expenditures. The budget presented will need to indicate the source and amount of revenues and expenditures based upon services to be provided. Please note that the new district may receive a "share" of the property tax revenues generated within the boundaries but that share depends on the types of services to be offered by the District, the previous sources of those services if any, and the historic cost to provide the services to be absorbed. No new taxes can be imposed by the creation of the District unless two-thirds of the voters approve the proposal.

   Please refer to the next sections of this submission beginning on page 15.

PLAN FOR SERVICES – PARK AND RECREATION

For each item identified for a change in service provider, a narrative "Plan for Service" (required by Government Code Section 56653) will be required. This plan shall, at a minimum, respond to each of the following questions and be signed by the proponents of the change.

1. A description of the level and range of each service to be provided to the territory through the formation process.

   The committee plans to continue to operate the parks in the community and to facilitate the recreation programs that are currently offered, including the senior luncheon program. The committee feels that the Board of Directors will have direct input from the community as to the types of services wanted. All funding sources will be continued.

2. An indication of when the service can be feasibly extended to the territory.

   Services will be extended to the district as warranted by the community.

3. An identification of any improvement or upgrading of structures, roads, water or sewer facilities, other infrastructure, or other conditions the new district would need to impose upon the territory.

   There is no plan for additional infrastructure at this time. The Board of Directors will, with community input, plan for future park and recreation facilities, if needed.

4. The estimated cost of extending the service and a description of how the service or required improvements will be financed. A discussion about the sufficiency of revenues to fund the anticipated service is also required.

   There are no additional costs to the community in changing from a County Service Area to a Community Services District.

5. An indication of whether the territory is or will be proposed for inclusion within a proposed improvement zone/district, assessment district, or community facilities district.

   The territory is not part of a proposed improvement zone, assessment district or community facilities district.

6. If retail water service is to be provided through this change, provide a description of the timely availability of water for projected needs within the area based upon factors identified in Government Code Section 65352.5 (as required by Government Code Section 56668(k)).

Water service is discussed in the Plan for Service – Water section.

7. Copies of the feasibility study for the formation of the District. The feasibility study must outline the anticipated structure of the governing body and provide a projected three-year budget for revenues and expenditures. The budget presented will need to indicate the source and amount of revenues and expenditures based upon services to be provided. Please note that the new district may receive a "share" of the property tax revenues generated within the boundaries but that share depends on the types of services to be offered by the District, the previous sources of those services if any, and the historic cost to provide the services to be absorbed. No new taxes can be imposed by the creation of the District unless two-thirds of the voters approve the proposal.

   Please refer to the next sections of this submission beginning on page 15.

PLAN FOR SERVICES – STREET LIGHTS

For each item identified for a change in service provider, a narrative "Plan for Service" (required by Government Code Section 56653) will be required. This plan shall, at a minimum, respond to each of the following questions and be signed by the proponents of the change.

1. A description of the level and range of each service to be provided to the territory through the formation process.

   The committee plans to continue to operate the streetlights in the community. The committee feels that the Board of Directors will have direct input from the community as to the need for and placement of additional streetlights. All funding sources will be continued.

2. An indication of when the service can be feasibly extended to the territory.

   Services will be extended to the district as warranted by the community.

3. An identification of any improvement or upgrading of structures, roads, water or sewer facilities, other infrastructure, or other conditions the new district would need to impose upon the territory.

   There is no plan for additional infrastructure at this time. The Board of Directors will, with community input, plan for future streetlights, if needed.

4. The estimated cost of extending the service and a description of how the service or required improvements will be financed. A discussion about the sufficiency of revenues to fund the anticipated service is also required.

   There are no additional costs to the community in changing from a County Service Area to a Community Services District.

5. An indication of whether the territory is or will be proposed for inclusion within a proposed improvement zone/district, assessment district, or community facilities district.

   The territory is not part of a proposed improvement zone, assessment district or community facilities district.

6. If retail water service is to be provided through this change, provide a description of the timely availability of water for projected needs within the area based upon factors identified in Government Code Section 65352.5 (as required by Government Code Section 56668(k)).

   Water service is discussed in the Plan for Service – Water section.

7. Copies of the feasibility study for the formation of the District. The feasibility study must outline the anticipated structure of the governing body and provide a projected three-year budget for revenues and expenditures. The budget presented will need to indicate the source and amount of revenues and expenditures based upon services to be provided. Please note that the new district may receive a "share" of the property tax revenues generated within the boundaries but that share depends on the types of services to be offered by the District, the previous sources of those services if any, and the historic cost to provide the services to be absorbed. No new taxes can be imposed by the creation of the District unless two-thirds of the voters approve the proposal.

   Please refer to the next sections of this submission beginning on page 15.

CERTIFICATION

I hereby certify that the statements furnished above present the data and information required to the best of my ability, and that the facts, statements, and information presented herein are true and correct to the best of my knowledge and belief.

DATE July 10, 2006

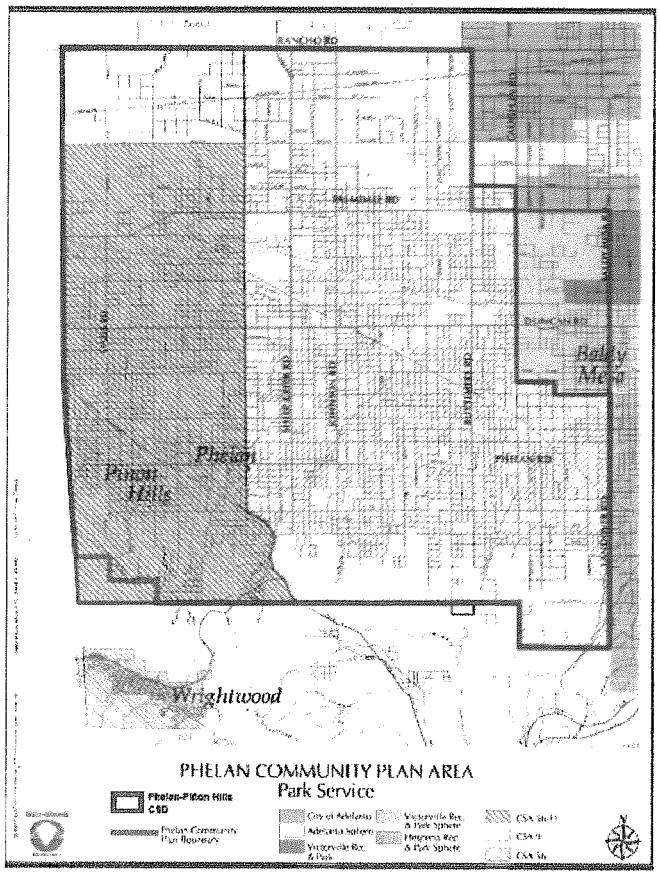
Charles N Johnson
SIGNATURE OF APPLICANT

PROPOSAL SUMMARY

This report discusses our examination of the financial and operational feasibility of reorganizing certain San Bernardino County Service Areas, into a new Community Services District (CSD). County Service Area 70, Improvement Zone L, has water powers and encompasses parts of Phelan and Piñon Hills. County Service Area 9 has Park and Recreation, street lighting and road maintenance powers. CSA 56 F-1 currently has fire and Park and Recreation powers. This reorganization proposes annexations to the district and changes to the sphere of influence, particularly in the northeast boundary of the district. The CSD proposes to have water, park and recreation, and street lighting powers.

The findings and conclusions that have resulted from this examination are summarized below.

- This feasibility and business plan covers the services that are proposed for the Phelan/Piñon Hills Community Services District (CSD). The proposed area is described by the legal description on pages 24 and 25 and the map below.



- The proposed CSD is located in an unincorporated area of San Bernardino County and encompasses approximately 128 square miles.

- The CSD area is growing rapidly and has a strong desire to manage its own services through a CSD. The majority of the community is single-family residential with commercial water connections.

- The CSD Feasibility Committee would like to see an orderly and scheduled transition to local government, maintaining the same services that are now being supplied by CSA 70, Improvement Zone L, CSA 9, and CSA 56 F-1 (Park and Recreation powers only). The basic transition period would be seven months after the community approves the CSD through the electoral process. The CSD committee believes the newly elected board should consider a longer transition and is recommending a contract with Special Districts, not to exceed three years to continue operation while the CSD gets set up to take over the management, administration, operation and maintenance of the areas, thus alleviating any immediate employee concerns on the part of Special Districts.

- LAFCO's approval of the formation of the Phelan/Piñon Hills Community Services District would authorize a locally elected District board to assume responsibility for managing and operating the water facilities currently operated by CSA 70, Improvement Zone L, and to assume the park and recreation and street lighting powers currently operated by CSA 9 and the park and recreation powers currently operated by CSA 56 F-1.

- The Board would then take on the recruitment of a General Manager, a Fiscal Services Manager, and contract for legal counsel.

Phelan-Piñon Hills Area County Service Area's History

County Service Areas (CSA)

A County Service Area is a component unit of the County of San Bernardino and is governed by the actions of the County Board of Supervisors.

County Service Area 9

The County Service Area (CSA) No. 9 was established by an act of the Board of Supervisors of the County of San Bernardino on January 2, 1946 under Section 4700 of the State Health & Safety Code to maintain 84 streetlights. The original CSA boundaries included nine square miles in the central area of Phelan. On December 17, 1997, the Local Agency Formation Commission approved the expansion of CSA 9 to include the area traditionally consider the area of Phelan. These boundaries are consistent with the Phelan Area Community Plan approved by the County Board of Supervisors in 1991. This LAFCO action also included the adding park and recreation and road maintenance powers. The CSA includes a community center, a senior center, and a two and one-half acre community park.

County Service Area 56 – Improvement Zone F-1

The County Service Area (CSA) No. 56 Zone F-1 Piñon Hills was established by an act of the Board of Supervisors of the County of San Bernardino to provide fire, park, and recreation services. There are two fire stations (102 & 103) along with one community center and one senior center and a small community park.

County Service Area 70 – Improvement Zones G, L, and L-1

The County Service Area (CSA) No. 70 Zone G, L and L-1 were established by actions of the board of Supervisors of the County of San Bernardino. The CSA No. 70 Zone G, Oak Springs (enterprise fund), was situated three miles north of Wrightwood. CSA 70 G was merged with CSA 70-L. CSA 70 L-1 was located at the eastern boundary of CSA 70 L and was merged with CSA 70 L.

Prior to the formation of CSA 70 L, there was a private water company called Smithson Springs. In 1964 a group wanting to have water outside of the small areas of Smithson Springs, Sheep Creek, and Oak Springs Valley held their first meeting. In 1965 the Piñon Hills Water Company was incorporated. John Holmes was the leading figure in this effort. Engineering studies were performed paid for by money raised privately. In May 1972 Zone L was created by the Board of Supervisors. In December 1972 is enlarged to seventy square miles wrapping around the Sheep Creek Mutual Water Company.

CSA 70-L currently serves a community of approximately 20,377 within the Phelan and Piñon Hills area. The water system consists of eleven pressure zones, thirteen wells in five well fields, 34 reservoirs with a combined capacity of

11,660,000 gallons, four de-sanding tanks with a combined capacity of 380,000 gallons, thirty-one pressure reducing stations, twenty-four booster pump stations with sixty booster pumps, and approximately 281 miles of water line. There are approximately 6,175 metered water connections.

CSA 70-L CURRENT FINANCIAL INFORMATION

The Special Districts Department, Water and Sanitation Division, using a pool of employees to provide service, operate the district. Refer to Appendix A, Table of Full Time Equivalent Positions. Zone L has no employees. San Bernardino County, through Special Districts Department, provides additional support services, such as management, fiscal, human resources and information services. Additional costs to Zone L include direct charges from Real Property, County Counsel and the Auditors office. These costs are included in the line item budget but not as salaries.

Equipment used in the district is mostly supplied through a pool of equipment, purchased by CSA 70 General, and charged to the districts on a proportionate rate, based on the number of connections. On December 31st of each year, the report of connections by district is used to determine the percentage share each is of the whole. For example, if Zone L is 30% of the total number of water connections, and a piece of equipment is purchased under CSA 70 General that will be used in all water districts, Zone L would reimburse CSA 70 General 30% of the cost of that equipment. If the equipment was to be used in all districts, water and sanitation, then Zone L's percentage of total connections would be used. Therefore, Zone L actually owns a percentage of the equipment that is shown on the CSA 70 General Inventory. This equipment includes vehicles, backhoes, generators, etc. A percentage of the equipment is owned by CSA 70 L.

PROPOSAL GENERAL INFORMATION

Proposal for Service

Whereas an Urban Water Management Plan was adopted by Zone L on January 29, 2002, the CSD will adopt this plan and continue its use until the new Board reviews the plan and makes a determination as to its continued use or the use of a revised plan or a new plan.

Reorganization Feasibility

It is the opinion of the task force that the formation of a Community Services District would allow the continuance of the same levels of service currently performed by the County Service Areas, as well as an improvement in accountability to the community.

Unfortunately, financial information requested from Special Districts was not received by the task force in time for review for this report. It is the belief of the task force that there will be cost savings to the community as a result of the formation of a Community Services District.

Review of Fixed Assets

Requested information not received from Special Districts.

a. *Wells*
b. *Boosters*
c. *Tanks*
d. *Water Rights*

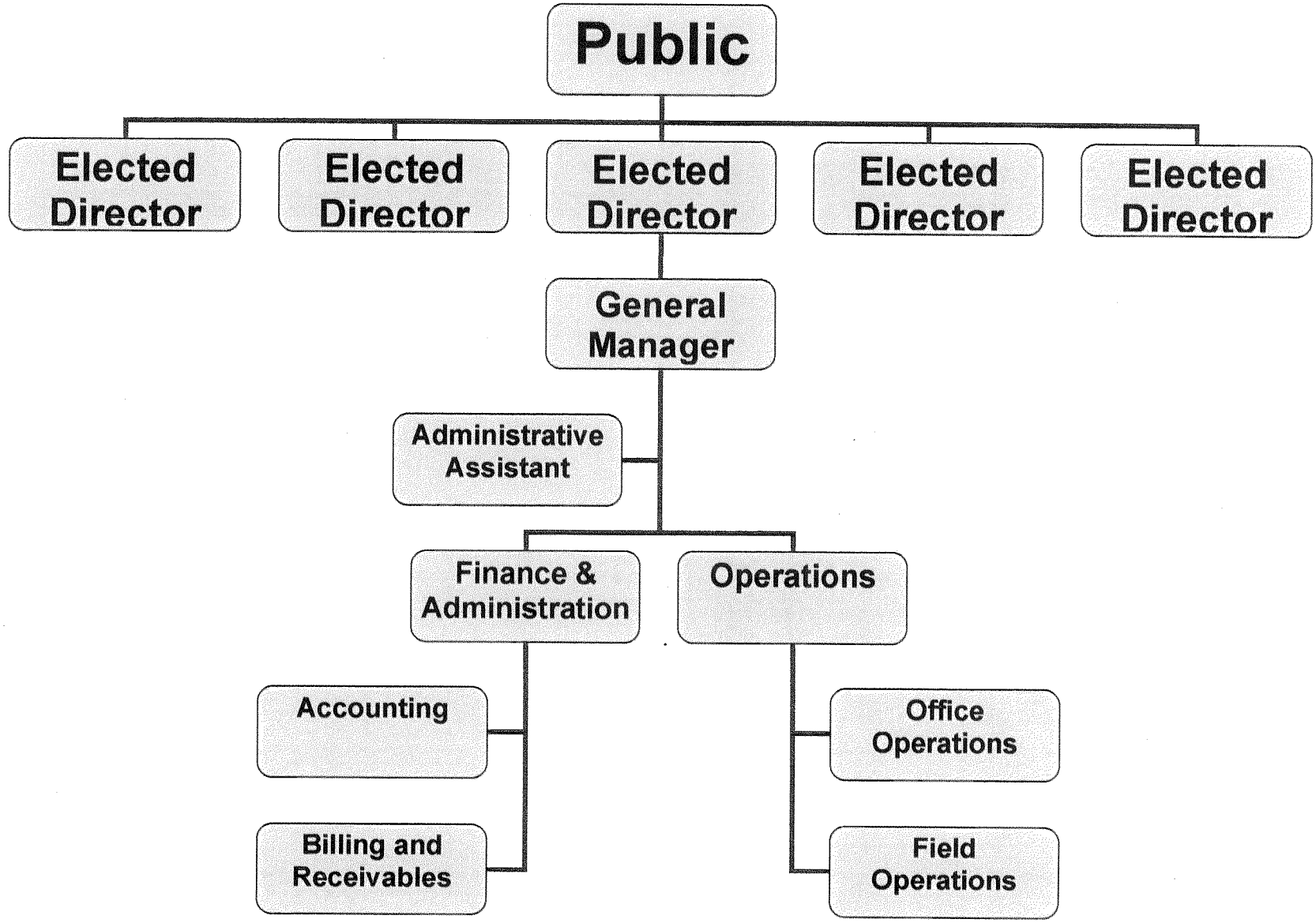
Reserve Accounts

The requested information concerning all reserve accounts and proposed uses was not received from Special Districts.

STRUCTURE OF THE ORGANIZING BODY

The Board of Directors of the CSD will be elected at large and serve alternative terms. The three elected directors receiving the highest number of votes will serve four year terms. The two other directors will serve two years. The organization chart is on the next page.

Phelan Piñon Hills Community Services District
Organization Chart



FINANCIAL INFORMATION FOR PROPOSED CSD

The schedules on the following pages show the revenues and expenditures for:

1. The combined budget or actual information for CSA 70-L, CSA 56 F-1, and CSA 9 for the years 2003-04, 2004-05, 2005-06, and 2006-07. The actual information for 2005-06 was not provided by Special Districts

2. The proposed revenue and expenditures for the CSD post formation (2007-08, 2008-90, and 2009-10)

3. The schedule of Salary, Benefits, and Contract Services

Revenue and Expenditure Comparisons

	Final Budget 2003-04	Actual 2003-04	Final Budget 2004-05	Actual 2004-05	Budget 2005-06	Proposed Budget 2006-07	Proposed Budget 2007-08	Proposed Budget 2008-09	Proposed Budget 2009-10
Revenue:									
Taxes	58,714	60,888	52,962	NOT AVAILABLE	67,636	82,594	67,660	67,700	67,700
Licenses and Permits	-	-	-	NOT AVAILABLE	-	-	-	-	-
Fines and Forfeitures	-	-	-	NOT AVAILABLE	-	-	-	-	-
Use Of Money and Prop	61,591	35,971	89,587	NOT AVAILABLE	98,401	77,979	78,000	78,000	78,000
State, Fed or Gov't Aid	80,000	40,607	105,000	NOT AVAILABLE	-	-	-	-	-
Current Services	3,145,016	3,200,297	3,180,030	NOT AVAILABLE	3,640,008	3,541,125	3,589,125	3,639,225	3,620,575
Other Revenue	26,781	53,068	20,734	NOT AVAILABLE	936,111	940,000	940,000	942,000	940,000
Other Financing Sources	3,770,000	1,304,980	1,515,201	NOT AVAILABLE	87,286	81,000	76,000	74,000	71,000
Operating Trf In/SDD Settlement	3,162,330	1,945,369	4,318,502	NOT AVAILABLE	2,348,519	2,300,000	-	-	-
Total Revenue	**10,304,432**	**6,641,180**	**9,282,016**	-	**7,177,961**	**7,022,698**	**4,750,785**	**4,800,925**	**4,777,275**
Expenditures:									
Salaries and Benefits	1,417,340	1,399,804	1,519,731	NOT AVAILABLE	1,557,449	1,599,274	2,080,594	2,080,594	2,080,594
Services and Supplies	1,721,837	1,610,415	1,549,482	NOT AVAILABLE	1,422,962	1,604,393	1,681,065	1,737,350	1,808,045
Central Computer	2,217	2,217	2,221	NOT AVAILABLE	2,720	3,000	-	-	-
Other Charges	455,154	266,409	384,109	NOT AVAILABLE	424,540	475,000	480,000	485,000	505,000
Land	-	-	-	NOT AVAILABLE	100,000	-	-	-	-
Equipment	153,700	57,224	-	NOT AVAILABLE	65,000	-	-	-	-
Vehicles	-	-	-	NOT AVAILABLE	-	-	-	-	-
Transfers	185	-	10,095	NOT AVAILABLE	4,050,884	4,000,000	-	-	-
Reserves & Contingencies	1,045,053	-	2,149,256	NOT AVAILABLE	2,112,743	2,153,655	-	-	-
Reimbursements	(48,875)	(69,527)	(26,000)	NOT AVAILABLE	478,059	488,252	-	-	-
Operating Transfers Out	7,055,263	2,870,428	5,725,116	NOT AVAILABLE	-	-	-	-	-
Directors Stipends & Expenses	-	-	-	-	-	-	18,000	18,000	18,000
Startup Costs (non-operating)		-							
Equipment/Software	-	-	-	-	-	-	100,000	100,000	100,000
Vehicles	-	-	-	-	-	-	224,000	224,000	-
Total Expenditures	**11,801,874**	**6,136,970**	**11,314,010**	-	**10,214,357**	**10,323,574**	**4,583,659**	**4,644,944**	**4,511,639**
Net Change in Assets	**(1,497,442)**	**504,210**	**(2,031,994)**	-	**(3,036,396)**	**(3,300,876)**	**167,126**	**155,981**	**265,636**

Schedule of Salaries, Benefits, and Contract Services

	SPECIAL DISTRICT TOTAL FTE	CSD FTE		PHELAN-PIÑON HILLS COMMITTEE	
PERSONNEL					
ADMINISTRATIVE			Salary	Amount	Percent
General Manager	0.80	1	115,000	115,000	5.00%
Finance & Administrative Manager	0.93	1	80,000	80,000	3.48%
Administrative Assistant	1.54	2	41,680	83,360	3.63%
Staff Analyst	2.90	3	54,000	162,000	
Automated Sys Tech	0.96	1	45,000	45,000	1.96%
Account Clerical	1.97	2	36,000	72,000	3.13%
Water Maintenance Supervisor	0.74	1	58,000	58,000	2.52%
Water Technician	0.74	1	45,000	45,000	1.96%
Heavy Equipment Operator	-		-	-	0.00%
Meter Reader/Maintenance	14.53	15	36,000	540,000	23.49%
Apprentice Operator/Laborer	-	-	-	-	0.00%
TOTAL EMPLOYEE COST	25.11	27		1,200,360	52.22%
Pension Fund 30% annual				360,108	15.67%
Worker's Compensation				85,000	3.70%
Burden (CSD employees)				420,126	18.28%
SUB-TOTAL ALL CSD EMPLOYEES				2,065,594	89.86%
Temporary Labor				15,000	0.65%
Director's Stipends				12,000	0.52%
Director's Expenses				6,000	0.26%
TOTAL EMPLOYEES AND DIRECTORS				2,098,594	91.30%
Contract Services					
Transitional Consultant				100,000	4.35%
Legal Services				50,000	2.18%
Engineering Services				40,000	1.74%
Accounting Services				10,000	0.44%
SUB-TOTAL CONTRACT SERVICES				200,000	8.70%
TOTAL EMPLOYEE & CONTRACT SERVICES				2,298,594	100.00%

CSD Proposed Legal Description – Version 1

Within the State of California, the County of San Bernardino, the San Bernardino Meridian, the following:

Township 5 North, Range 7 West

Including Sections 1, 2, 3, 4, 5, the portion of 6, east of the county line, the portion of 7, east of the county line, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, the portion of 18, east of the county line, the portion of 19, east of the county line, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, the portion of 30, east of the county line, the portion of 31, east of the county line, 32, 33, 34, 35, and 36.

Township 5 North, Range 6 West

Including Sections 4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31, 32, 33, and 34.

Township 4 North, Range 7 West

Including Sections 1, 2, 3, 4, 5, the portion of 6, east of the county line, the portion of 7, east of the county line, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, the portion of 18, east of the county line, the portion of 19, east of the county line, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, the portion of 30, east of the county line, the portion of 31, east of the county line, 32, 33, 34, 35, and 36.

Township 4 North, Range 6 West

Including Sections 3, 4, 5, 6, 7, 8, 9, 10, the portion of 11, south of Solano Road, west of Trinidad Road, south of Mesa Street, the portion of 12, south of Mesa Street, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, and 36.

Township 3 North, Range 6 West

Including Sections 1 and 2.

Area consists of 128 square miles, more or less.

CSD Proposed Legal Description – Version 2

All the following property defined within San Bernardino Base and Meridian

INCLUDING

Township 5 North, Range 7 West

Sections 1 through 36.

AND

Township 5 North, Range 6 West

Sections 4, 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 22 (*the portion of section 22* ***North*** *of Palmdale Road, State Highway 18, is also defined as being within the Adelanto sphere of influence*), 27, 28, 29, 30, 31, 32, 33, and 34.

AND

Township 4 North, Range 7 West

Sections 1 through 36.

AND

Township 4 North, Range 6 West

Sections 1 through 36, excepting those portions lying within the Victorville "Sphere of Influence" defined as of May 1st, 2004.

AND

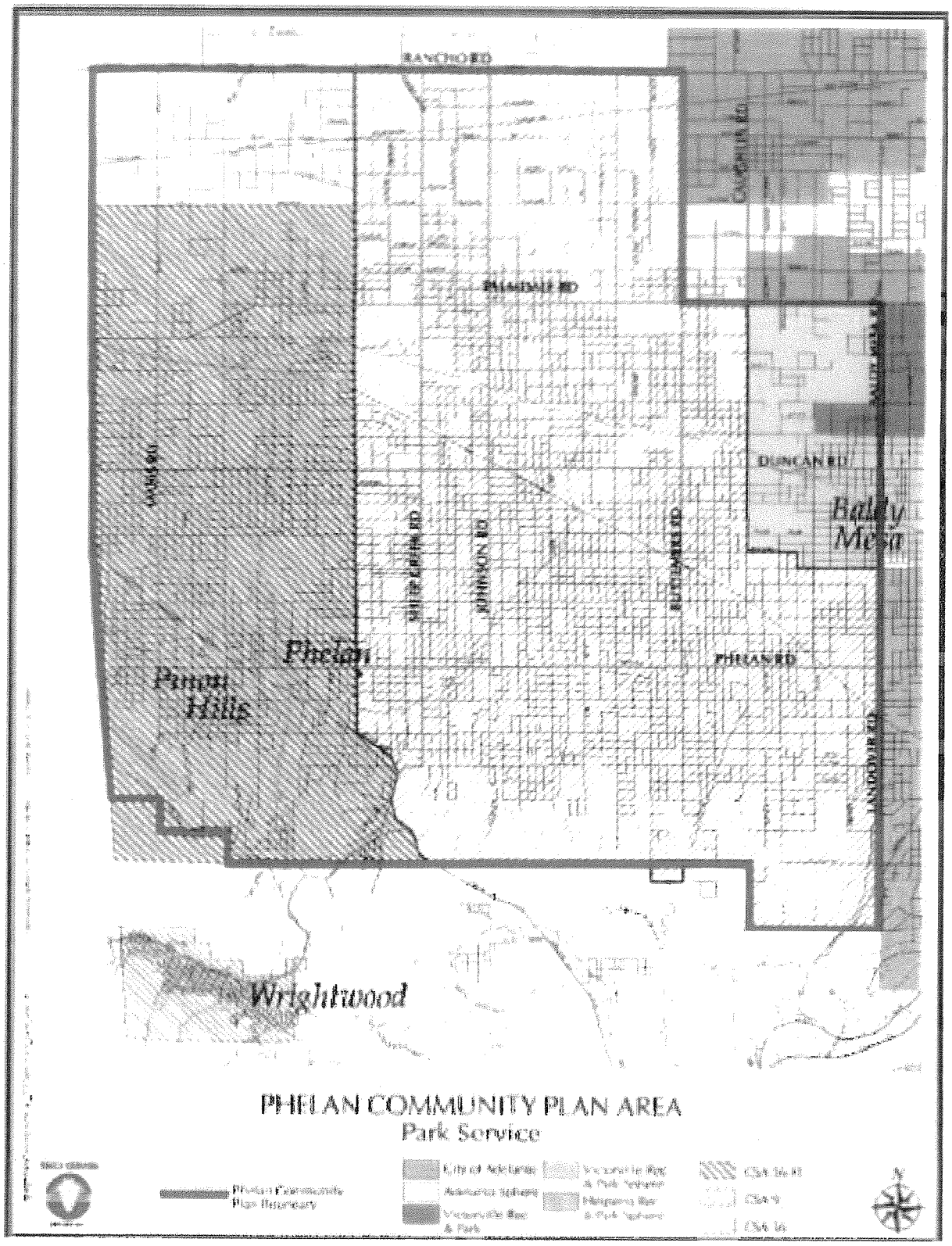
Township 3 North, Range 6 West

Sections 1 and 2.

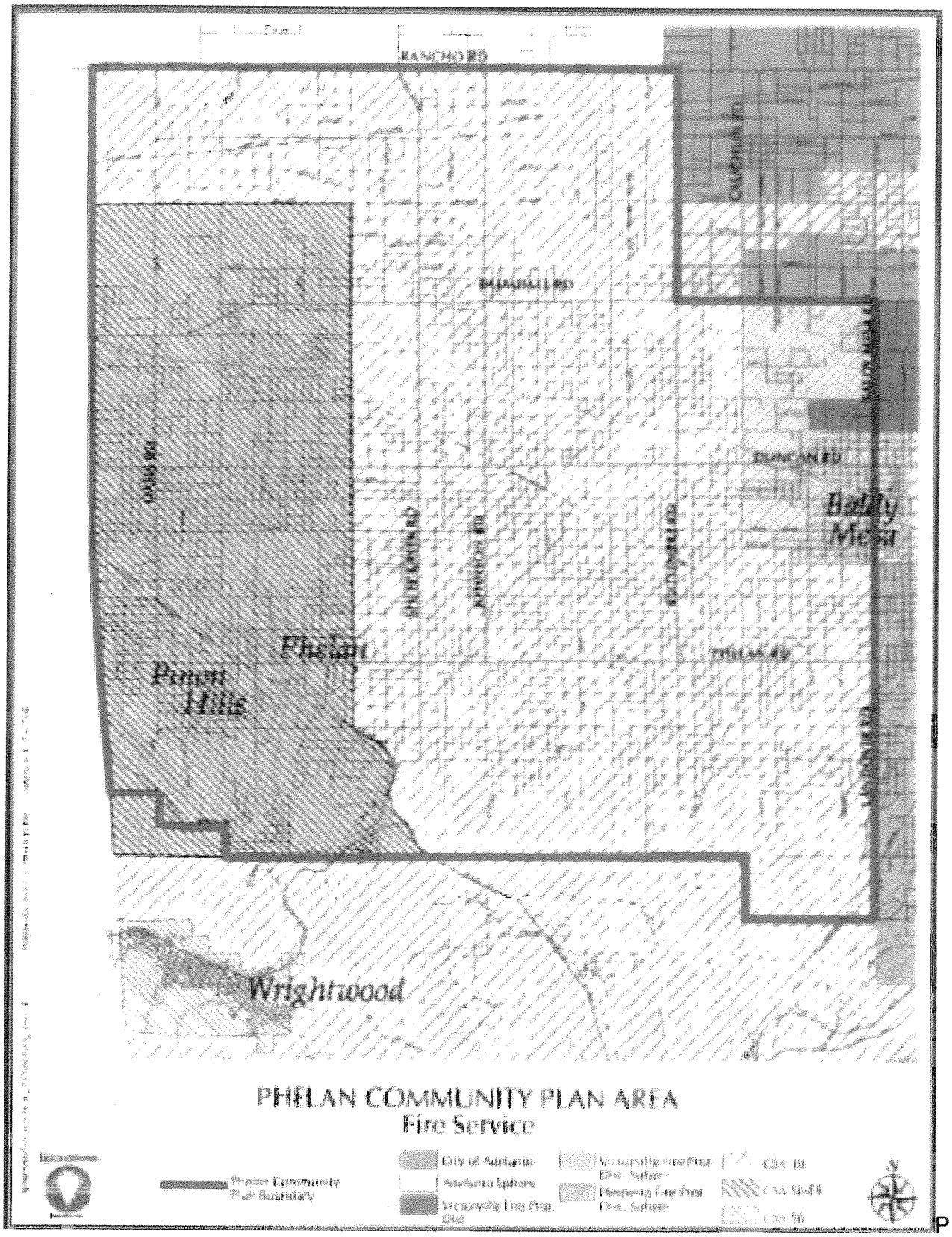
Area consists of 128 square miles, more or less.

TABLES OF COMMUNITY MAPS

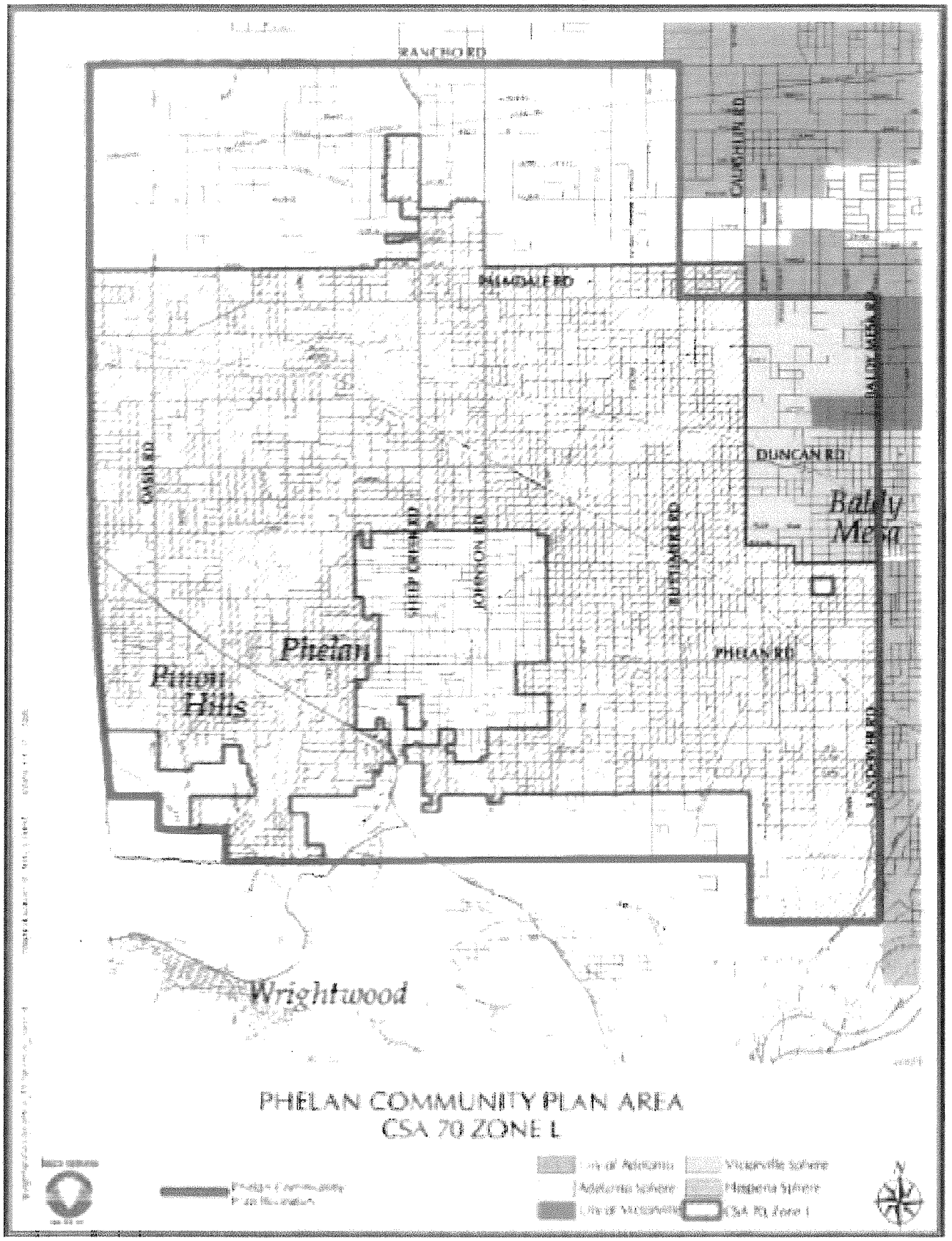
PHELAN COMMUNITY PLAN AREA – PARK SERVICE



PHELAN COMMUNITY PLAN AREA – FIRE SERVICE



PHELAN COMMUNITY PLAN AREA – CSA 70 ZONE L



APPENDIX A – ALLOCATION OF FULL TIME EQUIVALENT EMPLOYEES – PAGE 1

CSA 70 SDD FTEs
Including Shared Fire Positions - For LAFCO

	A	U	W	Y	AA	AC	AE	AG	AI	AJ
3	Position	Zone L Share Hours/FTE	Helendale B Share Hours/FTE	Helendale C Share Hours/FTE	CSA 9 Park Share Hours/FTE	CSA 96 F-1 Parks Share Hours/FTE	Road Impr G Share Hours/FTE	Roads Impr R-3% Share Hours/FTE	Pay Ranges	Pay Ranges
10	**Management**									
12	Director of SHD	14.30	4.60	3.78	0.88	0.30	0.39	0.20	Annual	$122,263.00
13	Operations/Maintenance Supervi	0.00	0.00	0.00	1.03	0.94	0.46	0.19	AI5	$36.82 - $45.84
14	Pc100 Regional Mngr	0.00	0.00	0.00	1.03	0.94	0.46	0.19	AO3	$27.13 - $34.66
15	Pc100 Regional Mngr	0.00	0.00	0.00	1.03	0.94	0.46	0.19	AO3	$27.13 - $34.66
16	Pc100 Regional Mngr	0.00	0.00	0.00	1.03	0.94	0.46	0.19	AO3	$27.13 - $34.66
17	Sub total hours	14.30	4.60	3.78	5.00	4.56	2.23	0.96		
18	**Sub total FTEs**	**0.18**	**0.06**	**0.05**	**0.06**	**0.06**	**0.03**	**0.01**		
19	**Fiscal**									
20	Director Mngr Budget	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AI5	$36.82 - $45.84
21	Supv of Fiscal Svcs	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AO3	$27.13 - $34.67
22	Budget Officer	16.82	5.42	4.45	1.03	0.94	0.46	0.24	AO0	$25.75 - $32.96
23	Account Clerk I	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AL2	$12.44 - $15.69
24	Account Clerk II	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AL2	$12.44 - $15.69
25	Supv Fiscal Tech I	0.84	0.27	0.22	0.05	0.05	0.02	0.01	AF3	$21.22 - $27.15
26	Executive Secretary III	16.82	5.42	4.45	1.03	0.94	0.46	0.24	AG7	$17.47 - $22.31
27	Staff Analyst I	16.82	5.42	4.45	1.03	0.94	0.46	0.24	AO2	$18.47 - $24.92
28	Account Clerk III	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AL3	$14.07 - $17.94
29	Staff Analyst II	16.82	5.42	4.45	1.03	0.94	0.46	0.24	AI6	$22.62 - $29.23
30	Sub total hours	119.17	38.30	31.12	6.77	6.16	3.25	1.62		
31	**Sub total FTEs**	**1.38**	**0.44**	**0.36**	**0.08**	**0.08**	**0.04**	**0.02**		
32	**Human Resources**									
33	City Mngr Human Res	5.05	1.62	1.33	0.31	0.28	0.14	0.07	AI5	$36.82 - $45.84
34	Human Resource Officer	5.05	1.62	1.33	0.31	0.28	0.14	0.07	AI4	$32.50 - $41.75
35	Personnel Svcs Supv	5.05	1.62	1.33	0.31	0.28	0.27	0.09	AF5	$21.82 - $27.93
36	Personnel Analyst	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AI7	$23.44 - $29.92
37	Clerk II	8.41	2.71	2.22	0.52	0.47	0.35	0.14	AA3	$10.74 - $13.71
38	Sub total hours	31.97	10.28	8.43	1.97	1.78	1.07	0.49		
39	**Sub total FTEs**	**0.40**	**0.13**	**0.11**	**0.02**	**0.02**	**0.01**	**0.01**		
40	**Admin / Clerical**									
41	PSE	52.52	4.00	3.34	0.77	0.70	0.35	0.22		$7.19 - $27.46
43	Construction Inspector	0.00	0.00	0.00	0.00	0.00	0.24	0.10	AF5	$21.82 - $27.93
44	Admin Secretary II	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AC1	$14.75 - $19.84
46	Construction Inspector	0.00	0.00	0.00	0.00	0.00	0.24	0.10	AF5	$21.82 - $27.93
49	Clerk II	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AA3	$10.74 - $13.71
50	Staff Analyst II	16.82	5.42	4.45	1.03	0.94	0.46	0.24	AI6	$22.62 - $29.23
51	Clerk II	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AA3	$10.74 - $13.71
53	Sub total hours	54.97	17.61	14.45	3.36	3.05	1.98	1.02		
54	**Sub total FTEs**	**0.58**	**0.23**	**0.18**	**0.04**	**0.04**	**0.03**	**0.01**		
55	**Information Services**									
56	Division Mngr Info Svcs	8.41	2.71	2.22	0.52	0.47	0.23	0.12	AI5	$36.82 - $45.84
57	Automated Sys Analyst II	16.82	5.42	3.15	0.00	0.00	0.00	0.00	AK4	$27.28 - $37.23
58	Automated Sys Tech	8.41	2.71	1.56	0.00	0.00	0.00	0.00	AD1	$16.25 - $22.75
59	Automated Sys Analyst I	16.82	5.42	3.15	0.00	0.00	0.00	0.00	AW6	$21.28 - $27.23
60	Automated Sys Tech	8.41	2.71	1.56	0.00	0.00	0.00	0.00	AD1	$16.25 - $22.75
61	Staff Analyst I	0.00	0.00	0.00	1.03	0.94	0.46	0.39	AO2	$19.47 - $24.92
63	Communication Aide	8.41	5.42	3.15	1.03	0.94	0.46	0.24	AA3	$10.74 - $13.71
64	Automated Sys Analyst I	0.00	0.00	2.22	0.52	0.47	0.23	0.12	AW6	$21.28 - $27.23
65	Comm Technician II	0.00	0.00	2.22	0.52	0.47	0.23	0.12	AW6	$21.28 - $27.23
66	System Support Analyst I	0.00	0.00	2.22	0.52	0.47	0.23	0.12	AF7	$23.19 - $29.65
67	System Support Analyst II	0.00	0.00	1.11	0.26	0.23	0.12	0.06	AG7	$30.65 - $39.21
68	System Support Analyst II	0.00	0.00	1.11	0.26	0.23	0.12	0.06	AG7	$30.65 - $39.21
69	Sub total hours	67.24	24.38	24.38	4.81	4.36	2.15	1.07		
70	**Sub total FTEs**	**0.84**	**0.30**	**0.30**	**0.06**	**0.05**	**0.03**	**0.01**		
71	Sub Total SDD Operations (Hours)	278.39	92.38	89.19	21.81	19.91	10.92	5.19		
72	Sub Total FTE SDD Operations	3.48	1.15	1.00	0.26	0.25	0.13	0.06		

APPENDIX A – ALLOCATION OF FULL TIME EQUIVALENT EMPLOYEES – PAGE 2

CSA 70 SDD FTEs
Including Shared Fire Positions - For LAFCO

	A	U	W	Y	AA	AC	AE	AG	AI	AJ
3	Position	Zone L Share Hours/FTE	Helendale B Share Hours/FTE	Helendale C Share Hours/FTE	CSA 9 Park Share Hours/FTE	CSA 56 F-1 Parks Share Hours/FTE	Road Impr C Share Hours/FTE	Roads Impr B-39 Share Hours/FTE	Pay Ranges	Pay Ranges
73	Sanitation Operations									
74	Chief Plant Operator	0.00	0.90	0.00	0.00	0.00	0.00	0.00	AG6	$24.86 - $31.73
75	Operator in Training	0.00	0.90	0.00	0.00	0.00	0.00	0.00	AM3	$15.29 - $19.56
76	Treatment Plant Operator I	0.00	1.40	0.00	0.00	0.00	0.00	0.00	AM7	$15.03 - $20.50
77	Treatment Plant Operator II	0.00	2.05	0.00	0.00	0.00	0.00	0.00	AM8	$17.20 - $22.02
78	Treatment Plant Operator III	0.00	0.79	0.00	0.00	0.00	0.00	0.00	AM9	$18.90 - $24.14
79	Subtotal FTEs	0.00	5.54	0.00	0.00	0.00	0.00	0.00		
80	Sanitation Maintenance									
81	Electrical Technician									
82	Mechanical Technician	0.00	0.14	0.00	0.00	0.00	0.00	0.00	ET1	
83	Maintenance Worker I (Sewer)	0.00	0.22	0.00	0.00	0.00	0.00	0.00	AL2	$14.83 - $21.15
84	Maintenance Worker II (Sewer)	0.00	0.61	0.00	0.00	0.00	0.00	0.00	AL3	$14.85 - $18.59
85	Maintenance Worker III (Sewer)	0.00	0.36	0.00	0.00	0.00	0.00	0.00	AL9	$15.94 - $20.38
86	Maintenance Worker IV (Sewer)	0.00	0.14	0.00	0.00	0.00	0.00	0.00	AM1	$17.65 - $22.60
87	Subtotal FTEs	0.00	1.49	0.00	0.00	0.00	0.00	0.00		
88										
89	Water Maintenance									
90	Chemical Technician	0.37	0.00	0.15	0.00	0.00	0.00	0.00	ET1	$18.79 - $24.05
91	Maintenance Worker I	5.54	0.00	0.75	0.00	0.00	0.00	0.00	AL3	$14.85 - $18.59
92	Maintenance Worker II	1.28	0.00	0.44	0.00	0.00	0.00	0.00	AL9	$15.94 - $20.38
93	Maintenance Worker III	2.23	0.00	0.35	0.00	0.00	0.00	0.00	AM1	$17.65 - $22.60
94	Water Reader	1.11	0.00	0.46	0.00	0.00	0.00	0.00	AM7	$15.03 - $20.50
95	Lead Meter Reader	0.37	0.00	0.15	0.00	0.00	0.00	0.00	AM8	$17.20 - $22.02
96	Sampling Technician	0.37	0.00	0.15	0.00	0.00	0.00	0.00	AZ4	$15.59 - $19.96
97	Water Maintenance Supervisor	0.37	0.00	0.15	0.00	0.00	0.00	0.00	AL6	$24.86 - $31.73
98	Water Quality Specialist	0.37	0.00	0.15	0.00	0.00	0.00	0.00	AP0	$19.60 - $25.01
99	Subtotal FTEs	10.01	0.00	2.77	0.00	0.00	0.00	0.00		
100	Water&San Clerical/Admin/Fiscal									
101	Account Clerk I	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AL1	$11.00 - $14.07
102	Account Representatives	0.54	0.23	0.23	0.00	0.00	0.00	0.00	AL4	$13.00 - $16.75
103	Account Clerk III	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AL3	$14.07 - $18.75
104	Administrative Secretary II	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AZ7	$13.72 - $17.54
105	Administrative Clerk I	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AB9	$14.16 - $18.14
106	Assessment Clerk	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AL2	$12.44 - $15.89
107	Accounting Technician	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AZ4	$15.59 - $19.75
108	Buyer	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AM5	$16.65 - $21.61
109	Collections Clerk	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AZ7	$13.70 - $17.43
110	Clerk II	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AM6	$11.00 - $14.07
111	Customer Service Rep	1.08	0.48	0.46	0.00	0.00	0.00	0.00	AL2	$12.44 - $15.89
112	Public Works Operations Engineer	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AG7	$30.68 - $39.24
113	Staff Analyst	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AD2	$19.47 - $24.92
114	Subtotal FTEs	4.39	2.01	1.90	0.00	0.00	0.00	0.00		
115	Water & Sanitation Management									
116	Business Office Manager	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AP4	$31.27 - $39.97
117	General Manager	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AP2	$37.72 - $45.35
118	Sanitation District Manager	0.00	0.12	0.11	0.00	0.00	0.00	0.00	AG5	$27.69 - $35.35
119	Water Operations Manager	0.37	0.00	0.15	0.00	0.00	0.00	0.00	AG5	$27.69 - $35.35
120	Water and Sanitation Division Chief	0.27	0.12	0.11	0.00	0.00	0.00	0.00	AG	$35.82 - $45.84
121	Subtotal FTEs	0.90	0.48	0.59	0.00	0.00	0.00	0.00		
122										
123	Sub Total Water/San Operations FTEs	21.16	9.54	5.26	0.00	0.00	0.00	0.00		
124										
125										
126	Total FTEs by District (based on Full Time Regular Employees)	24.58	10.09	5.26	0.26	0.25	0.13	0.05		
127										
128	PSE positions:									
129	7 PSE positions for CSA 9 & CSA 56 F-1	0.00	0.00	0.00	1.05	1.54	0.00	0.04		
130	Total FTEs by District	24.58	10.09	5.26	1.31	1.79	0.13	0.09		

Local Agency Formation Commission Issues
Phelan Piñon Hills CSD Committee Responses

In reviewing and approving the proposal for formation of a Community Services District (CSD) for the communities of Phelan and Piñon Hills, the Commission's purpose is to consider issues required by the Community Services District Law (Government Code Section 61000 et seq.) and Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 (Government Code Section 56000 et seq.), as well as a number of Commission policy issues relevant to the review of the formation of a new form of government for the community of Phelan-Piñon Hills.

The rewrite of Community Services District law became effective on January 1, 2006 and defines the purposes of these agencies through Section 61001(b), which reads as follows:

> *"The Legislature finds and declares that for many communities, community services districts may be any of the following:*
>
> *(1) A permanent form of governance that can provide locally adequate levels of public facilities and services.*
>
> The formation of a Phelan Piñon Hills Community Services District (CSD) will be a permanent form of governance for this emerging community. The proposed powers of water, park and recreation, and street lighting services are currently being provided by County Service Areas. The consolidation of these services into a locally governed CSD will provide community determined levels of service. The community will have direct input to the board of directors in determining future growth of existing services, as well as development of additional services for the community.
>
> *(2) An effective form of governance for combining two or more special districts that serve overlapping or adjacent territory into a multifunction special district.*
>
> Currently there are three County Service Areas (CSA 9, CSA 56 F-1, and CSA 70 L) providing services to the community. These CSAs are adjacent and overlapping. The formation of this CSD would consolidate these services into a single entity managed by a locally elected board of directors. This multifunction district will be more effective in delivering services to the community.

(3) *A form of governance that can serve as an alternative to the incorporation of a new city.*

In 1994 a committee was formed to investigate the feasibility for formation of a new city. At that time there were not sufficient revenues to make this feasible. With the recent changes in the laws in California, it will be more difficult to provide sufficient revenues for a feasible new city. The formation of a CSD for this community is an excellent alternative to formation of a new city.

(4) *A transitional form of governance as the community approaches city hood."*

This community has developed over several decades. The original settlers were true independent pioneers. The population has grown over several decades. This strong sense of independence remains as a primary characteristic of the community. Recent developments in land usage in neighboring communities have brought the separate communities of Phelan and Piñon Hills together. The two communities now see common needs and services. They have come to understand the great need to work together for our commonwealth. The differences have evolved into common goals for a single community.

It is very likely that in the future community growth will provide sufficient resources for a feasible new city. The formation of a CSD for the community will provide an outstanding opportunity to mature as a self governed entity. This developing maturity will be a superb foundation as the community transitions to a new city.

In addition, in order to approve this proposal, state law requires that the Commission's ultimate decision shall be based upon answers to the following questions:

1. Do the boundaries of the proposed new district make sense from a service delivery perspective for current and future growth? Are the boundaries reasonably recognizable? Do they promote efficient service delivery? Do they represent a community of interest? Do the proposed boundaries infringe on other established spheres of influence that might impede achievement of Commission goals in those areas?

   The proposed CSD boundaries follow long existing community boundaries. The current boundaries of CSA 56 F-1 have defined the community of Piñon Hills for many decades. The current boundaries of CSA 9 established in 1997 reflect the community of Phelan. Together the

two CSAs represent the boundaries established by the County of San Bernardino when they prepared the Phelan Area Community Plan as a segment of the County General Plan. The boundaries of CSA 70 L are entirely within the boundaries of CSA 9 and 56 F-1. These proposed CSD boundaries are clearly recognizable and logical for the efficient delivery of existing services and for future growth.

As mentioned in the previous section, these proposed CSD boundaries represent two communities coming together for their commonwealth.

There is a minor conflict within the northeastern boundaries of the proposed CSD and the sphere of influence of the City of Adelanto. This overlapping area consists of a one-half section area. The portion of Township 5 North, Range 6 West Section 22 north of Palmdale Road, State Highway 18, is also defined as being within the Adelanto sphere of influence. Our formation committee met recently with officials of the City of Adelanto. The conversation was cordial and they indicated that they have no concern about the overlap and are willing to detach this from their sphere of influence.

2. **Would the formation of the new district impair the ability of any other agency to continue providing services? Would there be any adverse financial or service impacts on other agencies that would damage their ability to maintain service levels in other areas?**

   The proposed CSD formation will in no way impair the ability of any other agency to continue providing services. The proposal requests that the park and recreation powers within the current CSA 56 F-1 be removed. These services would be provided by the new CSD. There is a separate budget with CSA 56 F-1 for the park and recreation services. The proposal further requests that these funds be transferred to the new CSD.

3. **Is the proposed new district financially feasible? Can it, at least, maintain the pre-formation service levels that are currently provided within the study area?**

   The proposal recommends that the existing levels of services be continued and no additional services be added. The proposal shows that the formation of this CSD is financially feasible. The forecasts indicate that with very conservative estimates of revenues and expenditures that the Net Change in Assets is positive and will continue to grow and provide funds for contingencies and reserves.

4. Does the proposed formation represent the best available service option for the community? Are there better alternatives for the provision of the

range of services within the study area? Does the proposed formation provide for a more efficient and accountable form of government?

The proposal consolidates several County Board managed agencies into a much more accountable agency with a locally elected board of directors, who will be able to obtain direct community input on a variety of current and future services. This will be a very effective agency for service delivery.

5. Would the proposed formation have any adverse environmental effects that cannot be mitigated to a level of non-significance? If it does, can those adverse effects be overridden by other benefits?

   The proposal for formation of the Phelan Piñon Hills Community Services District will have no adverse environmental effects. Since the proposal is a change in management from County Board managed agencies to a consolidated self governed district of currently provided services, there is a high degree of confidence that the appropriate authority will agree and submit a declaration of negative impact on the environment.

COUNTY OF SAN BERNARDINO
COUNTY SERVICE AREA 70
IMPROVEMENT ZONE L

2000
URBAN WATER
MANAGEMENT PLAN

Adopted January 29, 2002

Prepared by Engineering Resources of Southern California
Reviewed/Revised by So & Associates Engineers, Inc. Apple Valley, CA

REPORT/RECOMMENDATION TO THE BOARD OF SUPERVISORS OF SAN BERNARDINO COUNTY, CALIFORNIA AND RECORD OF ACTION

CSA 64 w/material
CSA 70 L w/CSA 70 L plan only

January 29, 2002

FROM: **EMIL A. MARZULLO**, Director
Special Districts Department

SUBJECT: **CONTINUED PUBLIC HEARING ON URBAN WATER MANAGEMENT PLANS FOR CSA 64 (SPRING VALLEY LAKE) AND CSA 70, IMPROVEMENT ZONE L (PINON HILLS).**

RECOMMENDATION: Acting as the governing body of County Service Area 64 and County Service Area 70, Improvement Zone L:

1. Conduct a public hearing continued from January 8, 2002, concerning the Urban Water Management Plan for each of the two districts;
2. Adopt the plans of both Districts and direct staff to submit the adopted plans to the State Water Resources Control Board.

****Notification as required has been made by publication in The Sun, the Daily Press and the Hesperia Resorter.**

****On call of the Chairman, no further testimony is taken and the hearing is closed.**

BACKGROUND INFORMATION: The Urban Water Management Planning Act (Assembly Bill 797) passed by the California Legislature in 1983 mandates that California Urban Water retailers supplying more than 3,000 acre-feet per year or providing water to more than 3,000 customers file an Urban Water Management Plan with the California Department of Water Resources. County Service Area 64 (CSA 64) and County Service Area 70, Improvement Zone L (CSA 70 L), meet the distribution criteria. The Districts' Plans were recently updated. Prior to formally adopting the updated Plans, a public hearing must be conducted in accordance with provisions of the Urban Water Management Planning Act. Proper noticing of this hearing was given and coordinated with the Clerk of the Board.

The Plans include all the information necessary to meet the requirements of subdivision (e) of California Water Code Section 10631. This information includes an analysis of existing and proposed water facilities, current and alternative conservation measures, water shortage contingency plan, water recycling, and alternate sources of supply. CSA 64 and CSA 70 L are operating under Ordinance SD 90-11 establishing water conservation measures, which support the water shortage contingency element portion of the Plans.

The Plans for the two districts will be submitted to the State Department of Water Resources after adoption by the Board of Supervisors. Public meetings and the availability of copies of the draft Plans were properly posted and/or noticed in the local newspapers. Copies of the draft Plans were available for public review at the districts' offices and the Hesperia and Victorville public library.

cc: SDD-Marzullo
CSA 64 Advisory Commission
CSA 70 L Advisory Commission
County Counsel-Krahelski
ED/PSG-Forster
1st District
File

nh

Record of Action of the Board of Supervisors

APPROVED BOARD OF SUPERVISORS
COUNTY OF SAN BERNARDINO

MOTION	MOVED	AYE	SECOND	AYE	ABSENT
	1		3	4	5

J. RENEE BASTIAN, CLERK OF THE BOARD

BY _____

DATED: January 29, 2002

Rev 07/97

ITEM 102

The CSA 64 Plan was prepared by So and Associates Engineers, Inc. The CSA 70 L Plan was prepared by Engineering Resources of Southern California, Inc., with assistance from So and Associates. Submittal of the Plans to the State is necessary for the Districts to be eligible for drought assistance funds.

On January 8, 2002, a public hearing was conducted to receive comments regarding the districts' Urban Water Management Plans. This hearing was continued until today for adoption of the plans.

REVIEW BY OTHERS: This item has been reviewed by County Counsel (L. Thomas Krahelski) on January 14, 2002, County Administrative Office, (Tom Forster, Administrative Analyst) on January 14, 2002 and coordinated with the First Supervisorial District.

FINANCIAL IMPACT: There will be no financial impact related to the above actions.

SUPERVISORIAL DISTRICT(S): First

PRESENTER: EMIL A. MARZULLO 387-5950

COUNTY OF SAN BERNARDINO
BOARD OF SUPERVISORS

Bill Postmus, First District
Jon D. Mikels, Second District
Dennis Hansberger, Third District
Fred Aguiar, Fourth District
Jerry Eaves, Fifth District

John F. Michaelson, Chief Administrative Officer

Special Districts Department
Emil A. Marzullo, Director

Thomas L. Sutton, Division Chief
Water and Sanitation Division

ENGINEERING STAFF (So & Associates Engineers, Inc.)

Wilson F. So, District Engineer
J. Johan, Assistant Project Engineer

CSA 70L - 2000 URBAN WATER MANAGEMENT PLAN

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SECTION I
PLAN ADOPTION, PLANNING COORDINATION

SECTION I

PLAN ADOPTION, PUBLIC PARTICIPATION, PLANNING COORDINATION

Plan Adoption

California Water Code Section 10621 (a) Each urban water supplier shall, not later than January 31, 1992, prepare, adopt and submit to the department an amendment to its urban water management plan which meets the requirements of subdivision (e) of Section 10631.

CSA 70, Zone L began preparation of its Water Shortage Contingency Plan in January 1992. The Plan was updated and finalized in November 1994 and was adopted on December 20, 1994 by the County Board of Supervisors. The Plan included all the information necessary to meet the requirements of subdivision (e) of California Water Code Section 10631. This is an update of the adopted plan.

California Water Code Section 10642 Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to California Water Code Section 6066 of the Government Code. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

Public meetings and the availability of copies of the Draft Water Shortage Contingency Plan were available for public review at the Water and Sanitation Operations offices and at local libraries. CSA 70, Zone L held public meetings prior to adoption of the Water Shortage Contingency Plan.

California Water Code Section 10656 An urban water supplier that does not submit an amendment to its urban water management plan pursuant to subdivision (a) of Section 10621 to the department by January 31, 1992, is ineligible to receive drought assistance form the state until the Urban Water Management Plan is submitted pursuant to Article 3 (commencing with Section 10640) of Chapter 3.

CSA 70, Zone L submitted a Water Shortage Contingency Plan to the Department of Water Resources on January 10, 1995. This updated Plan is submitted in conjunction with the updated Urban Water Management Plan which meets the requirements of subdivision (e) of Water Code Section 10631.

Public Participation

California Water Code Section 10642 Prior to adopting a plan, the irban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to California Water Code Saction 6066 of the Government Code. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

Public meetings and the availability of copies of the Draft Urban Water Management Plan were properly noticed in local newspapers. Copies of the draft plan were available for public review at the Water and Sanitation Operations offices and at local libraries. County Service Area 70, Improvement Zone L, held a public meeting on January 8, 2002 prior to adoption of the Urban Water Management Plan.

Planning Coordination

California Water Code Section 10620. (d) (2) Each urban water supplier shall coordinate the preparation of its urban water shortage contingency plan with other urban water suppliers and public agencies in the area, to the extent practicable.

All current County Service Area 70, Improvement Zone L (may also be referred to as "District" through this document) water sources are from groundwater and are assumed shared in common with other urban and agricultural interests in the area. This updated 2000 Urban Water Management Plan has been circulated to the following agencies for their review and input:

- Victor Valley Water District;
- City of Hesperia (Hesperia Water District);
- Town of Apple Valley (Apple Valley Water Department);
- Mojave Water Agency
- Sheep Creek Mutual Water Company;
- Victorville & Hesperia Public Libraries (for general public's information)

SECTION II
HISTORICAL AND PROJECTED WASTEWATER FLOWS

SECTION II

LAND USE, POPULATION, AND WATER REQUIREMENTS

The study area covered by this plan includes all of the land within County Service Area 70, Improvement Zone L which includes the unincorporated desert community of Pinon Hills and a portion of the community of Phelan. The CSA 70, Zone L service area encompasses approximately 80 square miles located in the High Desert area between Palmdale and Victorville. In general, the area lies north of Highway 138 and west of Interstate 15 and the Cajon Pass. The western boundary is the San Bernardino/Los Angeles County line and to the east it is bound by Caughlin Road and Baldy Mesa Road. The area runs north from the Angeles National Forest to just above Highway 18. In the Plan, the term "CSA 70, Zone L" includes the area know as Zone "L-1", located southeast of the original CSA 70, Zone L boundary (see Figure 2-1 and 2-2).

Located in the southern central section of, and surrounded by CSA 70, Zone L is the Sheep Creek Mutual Water Company (SCMWC), a private water purveyor. The service area for this water company covers approximately nine (9) square miles, encompassing much of the community of Phelan including a limited commercial core. Because of the centralized location of this private water company and the absence of CSA 70, Zone L waterlines running through SCMWC's service area, CSA 70, Zone L's southern half is effectively divided in an east-west direction into two (2) sub areas (see Figure 1-2).

CSA 70, Zone L overlies the Upper Mojave River, El Mirage and Antelope Valley Groundwater Basins. In addition, Zone G, located to the south can supply CSA 70, Zone L with additional water in the summer months through an emergency intertie.

The socioeconomic characteristics of an area largely affect the demand and planning for utilities. To determine future capacity and size of water mains, wells, booster pumps, storage reservoirs and other water system facilities, it is necessary to develop and project future water requirements. Water service requirements are determined based on land use, projected population growth, and historical pattern of water use.

LAND USE

CSA 70, Zone L includes about 80 square miles. Table 2-1 summarizes the various land use categories and acreage within each of the pressure zones.

The Study Area topography ranges from steep slopes and rocky outcrops to a broad alluvial plain. Elevations within the Study Area vary from 3,112 feet in the northeasterly portion to 5,200 feet in the southwesterly portion, necessitating separation of CSA 70, Zone L into eight (8) pressure zones.

TABLE 2.1
Land Use by Pressure Zone

LAND USE ZONE	Zone 1 (AC)	Zone 1A (AC)	Zone 2 (AC)	Zone 3W (AC)	Zone 3E (AC)	Zone 4W (AC)	Zone 4E (AC)	Zone 5W (AC)	Zone 5E (AC)	Zone 6W (AC)	Zone 6E (AC)	Zone 7W (AC)	Zone 7E (AC)	Zone 8W (AC)	Zone 8E (AC)	TOTAL (AC)
Single Family Residential (RS)	610	0	80	66	100	268	540	505	0	105	170	0	0	0	0	2,444
Rural Living (RL)	9,988	1,000	10,916	4,028	4,217	1,743	3,158	1,224	3,245	1,080	1,165	1,120	315	325	250	43,774
Rural Living - 5 (RL-5)	0	0	0	0	1,130	0	970	0	770	0	0	0	0	0	0	2,870
Multiple Family Residential (RM)	0	0	185	195	0	0	0	0	0	0	0	0	0	0	0	380
Planned Development (PD)	0	0	0	0	0	0	0	15	0	100	0	0	0	0	0	115
Service Commercial (CS)	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Office Commercial (CO)	27	0	0	0	0	15	0	0	0	0	0	0	0	0	0	42
Commercial General (CG)	30	0	0	0	0	100	0	55	0	8	0	0	0	0	0	193
Neighborhood Commercial (CN)	0	0	50	20	8	10	0	0	0	0	0	0	0	0	0	88
Community Industrial (IC)	195	0	160	0	0	240	0	355	0	0	0	0	0	0	0	950
Institutional (IN)	0	0	50	20	0	0	0	0	0	0	75	0	0	0	0	145
TOTALS	10,873	1,000	11,441	4,329	5,455	2,376	4,668	2,154	4,015	1,293	1,410	1,120	315	325	250	51,024

POPULATION

Population growth constitutes demand for residential, commercial, industrial, and other service activities. There were approximately 4520 active meters (527 inactive meters) in the year 2000 with an estimated population of 14,400. This is a 23% increase over the 1991 population of 11,733. This was an average population growth of 2.3% and a 2.0% new connection growth rate between 1990 and 2000.

WATER REQUIREMENTS

Historical data on water production, metered water, and water losses were obtained from the Hydraulic Analysis Report prepared by Engineering Resources of Southern California, Inc., and County Special Districts Department records. Table 2.2 summarizes historical water consumption from 1985 to 2000. (1985 and 1990 production is an estimation. No flow meters on wells.)

TABLE 2.2
Historical Water Demands

Year	Active Meters	Total Meters	Metered Sales (ac-ft)	Production (ac-ft)
1985	1,681	2,280	N/A	1,256
1990	3,771	4,348	1,527	2,490
1995	4,240	4,790	2,282	2,520
2000	4,518	5,049	2,735	3,140 *

* 210 AF was accounted for and used for dust control, fire fighting and well pumping to waste.

Every water system has a certain amount of unaccounted for water use (line losses, emergency fire flow, repairs, system flushing, etc.). Records from the District reflect that the system is being improved each year and the unaccounted losses are gradually being reduced (7% unaccounted for water for the year 2000). Future water requirements were projected based on per capita usage and water duty methods.

(1) Domestic Water Requirements

Average day demand per connection as presented in the February 2001 Hydraulic Analysis Report, was determined by averaging the total annual demand for all the connections. Maximum day unit water demands for these categories were then calculated by multiplying the average day demand for each group by a factor of 2.0 (Ratio of average/maximum day demand). The average daily demand was calculated to be 630 gpd per connection (this includes all water production including unaccounted for water), and the average metered

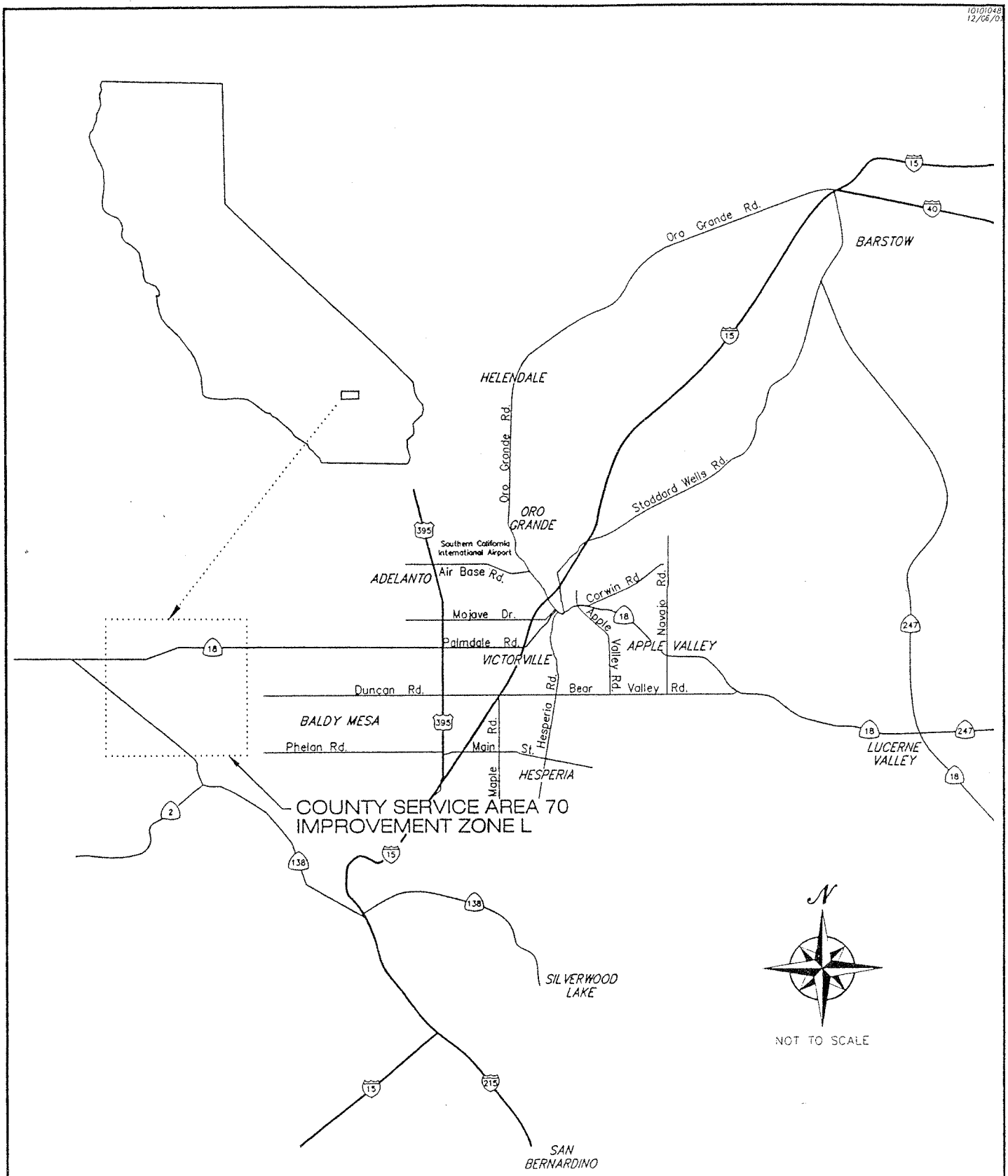
demand was 594 gpd per connection. Therefore, Zone L's total average day demand was 2.85 mgd and 5.7 mgd for the maximum day demand for the year 1999/2000.

(2) **Storage Requirements:** Storage requirements are based on the following:

Operational Storage	(50% of maximum day demand)
Emergency Storage	(50% of maximum day demand)
Fire Flow Storage	(variable)

(3) **Fire Flow Requirements**

The February 2001 Hydraulic Analysis Report determined that the existing backbone transmission system was designed to provide a maximum fire flow of 750 gpm.



COUNTY SERVICE AREA 70 ZONE L
LOCATION MAP
FIGURE 2-1

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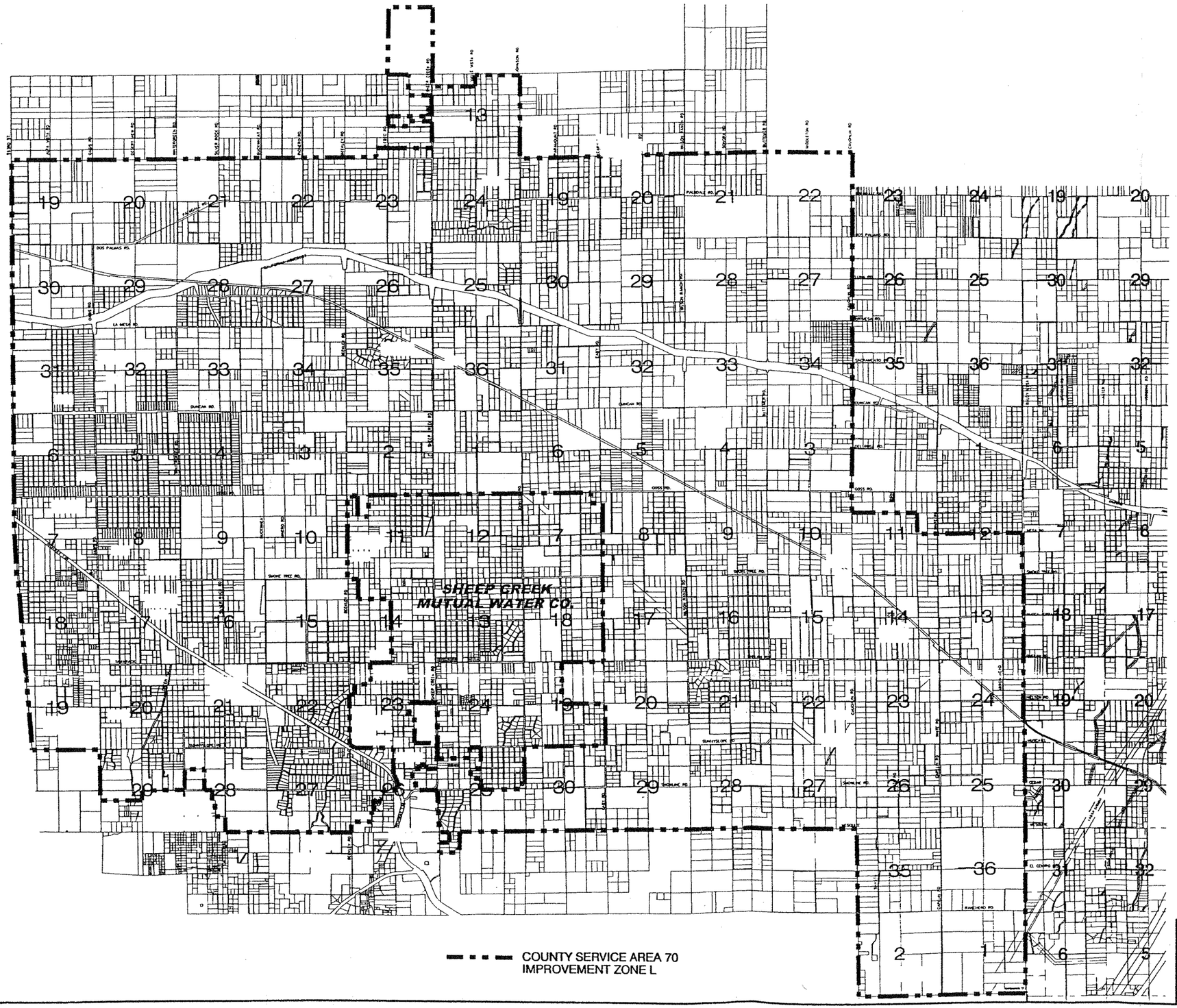

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COUNTY SERVICE AREA 70 ZONE L
STUDY AREA
FIGURE 2-2

SECTION III
EXISTING AND PROPOSED FACILITIES

SECTION III

EXISTING AND PROPOSED FACILITIES

The existing CSA 70, Zone L water system serves an area of approximately 51,000 acres (80 square miles) with about 4520 active service connections. Based on the Hydraulic Analysis Report, the system is divided into eight (8) pressure zones. Currently, the majority of each zone is gravity fed from storage reservoirs located at higher elevations. Figure 3-1 shows the existing and proposed water facilities.

Storage Facilities

Table 3-1 summarizes the projected water storage requirements for each of the eight (8) pressure zones, covering a 15 year planning period, assuming a 3.7% annual growth rate per year for the years 2000/01 to 2005/06, and a 3.3% annual growth rate for the years 2005/06 to 2015/16.

TABLE 3-1
Future Storage Requirements by Pressure Zones

Zone	2000/01 Existing Storage (MG) [1]	2000/01 Required Storage (MG) [1]	2005/06 Required Storage (MG) [1]	2010/11 Required Storage (MG) [1]	2015/16 Required Storage (MG) [1]
1	1.03	3.0	3.6	4.2	5.0
2	1.53	3.0	3.0	3.0	3.0
3W	0.321	0.9	1.1	1.3	1.5
3E	0.721	0.6	0.7	0.8	0.9
4W	0.323	0.4	0.5	0.5	0.6
4E	0.212	0.7	0.8	0.9	1.0
5W	0.323	0.4	0.5	0.5	0.6
5E	0.486	0.4	0.5	0.5	0.6
6W	0.400	0.4	0.5	0.5	0.6
6E	0.429	0.5	0.6	0.7	0.7
7W	0.37	0.3	0.4	0.4	0.5
7E	0.244	0.3	0.4	0.4	0.5
8W	0.141	0.2	0.2	0.2	0.2
8E	0.141	0.2	0.2	0.2	0.2
Total	**6.7**	**11.3**	**13.0**	**14.1**	**15.9**

[1] Includes Operational, Emergency and Fire Flow Storage

Storage requirements consist of three (3) elements, operational storage, emergency storage and fire storage. The Hydraulic Analysis Report for the CSA 70, Zone L used the following criteria:

- Operational Storage - 0.5 maximum day demand per pressure zone
- Emergency Storage - 0.5 maximum day demand per pressure zone
- Fire Storage - 750 gpm x 2 hours

Supply Facilities

Sources of supply must be capable of providing maximum day demand (MDD). Presently, CSA 70, Zone L relies on groundwater as the sole source of supply, as show in Table 3-2. The District currently operates eleven (11) wells yielding a total of 6.2 million gallons per day (MGD) in 2000. Comparison of the available 5.7 MGD to the maximum day water consumption indicates that CSA 70, Zone L has adequate supply capacity for the existing demand for its 4,520 active connections. Zone L cannot meet the projected demand for its approximately 527 inactive connections. Therefore, development of additional sources of supply will be required for new connections and existing inactive connections.

TABLE 3-2
Existing Supply from Wells

Well No.	1991 (Gpm)	2000 (Gpm)
2	214	231
3	344	332
4	298	250
5	499	560
6A	243	316
6B	446	410
8	Not in Service	0
9A	288	333
9B	410	393
10	0	(188) *
11	0	(842) *
12	0	1500
TOTAL	2742	4325

* Wells #10 and #11 back-up Well #12

Booster Facilities

The CSA 70, Zone L existing water system has twenty-one (21) booster pumping stations. All boosters are vertical turbine pumps with the number of pumps and pump capacity summarized in Table 3-3.

TABLE 3-3
Inventory of Booster Stations

Zone	Booster Station	Pump to	Pump A (Gpm)	Pump B (Gpm)	Pump C (Gpm)	Pump D (Gpm)	Total Capacity (Gpm)	Total Capacity Required	Total Capacity Recommended (Gpm)
1	W-2	Res. 1-A, 1-C	317	415	552		1175	1423	1500
	W-10	Res. 1-B, 1-A	523	876			1250	1250	1450
2	1-A	Reservoir 2-A	308	406	536		980	1000	2500
	1-B	Res. 2-B, 2-A	508	398	475	319	1300	1500	1500
	1-C	Reservoir 2-C	439	528	441		990	1030	1050
3-W	2-A	Reservoir 3-B	316	584	564		1500	750	1800
W	2-B	Reservoir 3-A	492	477			600	750	1200
E	2-C	Reservoir 3-C	255	451	435		990	925	1600
E	BMWD	Reservoir 3-C	600				600	800	800
4-W	3-A	Reservoir 4-A	151	349	466		930	500	800
W	3-B	Reservoir 4-B	441	555			850	500	800
E	3-C	Reservoir 4-C	275	218	353		800	600	1100
5-W	4-A	Reservoir 5-A	204	313	419		770	400	700
W	4-B	Reservoir 5-B	387	362			830	400	700
E	L-1	Reservoir 5-C	99	132			250	170	400
6-W	5-A	Smithson Spr.	179	179	207		450	200	550
E	5-B	Reservoir 6-A	369	566			900	400	750
W	Mtn	Smithson Spr.	246	340			450	0	0
7-E	6-A	Hydro Station	225	253			400	50	200
E	Beek	Reservoir 7-B	172	158			250	100	250
W	Green	Reservoir 7-A	92	96			150	50	100
W	13	Reservoir 7-C	329	305			500	200	250
8-W	12	Reservoir 8-B	150	151			250	100	50
E	7-B	Reservoir 8-A	132	148			200	50	150

SYSTEM IMPROVEMENTS

Construction of storage, supply and piping facilities as scheduled and identified in the February 2001 Hydraulic Analysis Report.

(1) Piping

New piping to accommodate existing active connections only is identified in the February 2001 Hydraulic Analysis Report. The report recommended the construction of an additional 2,600 feet of 10" waterline and 6,000 feet of 8" waterline.

(2) Storage

The Hydraulic Analysis Report identified storage requirements for existing connections and future connections. Additional storage capacity will enhance operational, emergency, and fire flow capabilities. Pressure Zone 1 is scheduled to have 3.0 million gallons constructed for the planning period 2001/02 to 2002/03, and an additional 1.0 million gallons is recommended to accommodate additional recommended supply.

(3) Supply

The Hydraulic Analysis Report identified the required supply capacity to meet current and future demands. It is assumed that the supply source will continue to be groundwater wells. Table 3-4 summarizes the past and projected water supply requirements from 1990 through the year 2015.

TABLE 3-4
Water Supply Requirements

Year	Total Active Connections	Average Day Demand (gpm)	Maximum Day Demand (gpm)	Supply Capacity (gpm)	Annual Demand (ac-ft) (1)
1990	3,771	1,047	1,950	2,243	2,490
1995	4,240	3386	3,386	2,930	2,520
2000	4,520	1,824	3,657 (2)	4,325	3,117
2005	5,420 (3)	2,187	4,374 (2)	5,355 (4)	3,632
2010	6,376 (3)	2,573	5,146 (2)	5,705 (5)	4,272
2015	7,500 (3)	3,027	6,053 (2)	7,000 (6)	5,026

(1) Includes 5% unaccounted for water and 5% for dust control, fire fighting and wells pumping to waste.
(2) Includes 5% unaccounted water.
(3) Projected connection increases were obtained from San Bernardino County Planning Department
(4) Includes proposed future Wells #14, #15 and #16.
(5) Includes proposed future Well #9-C
(6) Includes proposed future water filtration plant or Wells #17 and #18.

SUPPLEMENTAL WATER SUPPLY

As discussed in Chapter 1, CSA 70, Zone L staff have assumed that groundwater will continue to be the primary source of supply until pumping costs become uneconomical due to lowering of the groundwater table or until a more economical alternative source of supply is identified. At build-out, CSA 70, Zone L is projected to require an estimated 7,300 ac-ft of total water supply for the current land use plan. Zone L may require a water filtration plant to treat State Project Water with a recommended 4.0 MGD water treatment facility to be constructed sometime after the year 2020. Estimated cost for purchase, treatment and delivery of State Project Water is approximately $400 per ac-ft, as compared to the estimated cost for new well and delivery of groundwater at $250 per ac-ft. Groundwater supply that is located west of the Mojave Water Agency Boundary is estimated to be $180 per ac-ft delivered to Pressure Zone 2. These costs exclude capital costs.

Table 3-5 shows the pumping levels of Zone L's wells. The pumping levels for Zone L's wells have changed little since 1990. This may be a reflection of the above average rainfall for the years 1993 to 1998.

TABLE 3-5
Well Pumping Levels (Depth from Ground Surface)

Well #	1990	1995	2000
2	456.5	496.1	450
3	500	501.3	478
4	483.2	574	456
5	495.5	501.1	505
6A	653.2	653.3	652
6B	682.4	652.7	667
9A	685.2	672.6	N/A
9B	714.7	700.6	N/A
10	500.2	504.6	540
11		578.6	530
12			534

Table 3-6 lists the groundwater basins that Zone L's wells extract water supply. Their 1998, 1999 and 2000 production and safe yields (free production allowance) are also shown.

TABLE 3-6
Zone L Well Production

Well #1	Groundwater Basin	Free Pumping Allowance (AF/YR) (1)	1998 (AF/YR)	1999 (AF/YR)	2000 (AF/YR)
2	Oeste	N/A	99	159	205
3	Oeste	N/A	305	339	261
4	Oeste	N/A	256	193	162
5	Oeste	N/A	261	368	455
6A	Oeste	N/A	411	477	444
6B	Oeste	N/A	242	404	191
10	Oeste	N/A	331	455	180
11	Oeste	N/A	87	106	56
12	Oeste	N/A	0	0	566
Subtotal		**1,045**	**1,992**	**2,501**	**2,520**
9A	Alto	N/A	132	229	227
9B	Alto	N/A	372	409	370
Subtotal		**284**	**504**	**638**	**597**
TOTAL		**1,329**	**2,496**	**3,139**	**3,117**

(1) Zone L must pay Mojave Water Agency replenishment costs or purchase unused free production allowance supply from other basin users for all production that exceeds its adjudicated water supply rights (free pumping allowance).

PAST, CURRENT AND PROJECTED WATER USE (1992 - 2001)

California Water Code Section 10620 (e) (1) Past, current and projected water use and, to the extent records are available, a breakdown of those uses on the basis of residential single family, residential multifamily, industrial, commercial, governmental, and agricultural use.

CSA 70, Zone L, currently serves approximately 14,400 residents (1999/00 estimate). CSA 70, Zone L has experienced a 2.0% average increase of new connections per year over the past several years. The San Bernardino County Planning Department projects a 3.3% to 3.7% increase in population over the next 20 years.

In the year 2000, the water demand was 3,140 ac-ft per year. Worst case total annual demand is estimated to be 4,670 ac-ft per year (20 year planning period from 2000 at an average of 2% increase in new equivalent connections per year). Unaccounted for water (leaks, etc.) is estimated to average about 7%, dust control, fire protection, pipeline and reservoir and well flushing is estimated to account for 4%, these are apportioned to all account types. The average residential water use in the

year 2000 was 594 gpd per meter. If the 11% unaccounted for water is included, the average demand per metered connection is 630 gpd (see page II-3).

For the ten (10) years from 1990 to 2000, new connections had increased by an average of 75 connections per year. The San Bernardino County Planning Department projects an average growth rate of 3.5% per year for the next 20 years.

Table 3-7 shows the San Bernardino County Planning Department connection projections for the following five (5) years.

TABLE 3-7
Customer Types, Normal Demand and Demand Including Growth

PROJECTED GROWTH OF 3.5% NEW CONNECTIONS (EDU'S) PER YEAR						
Customer	Base Year Connections 2000	Base Year Demand (AF) 2000	Projected Demand (AF) 2001/02	Projected Demand (AF) 2002/03	Projected Demand (AF) 2003/04	Projected Demand (AF) 2004/05
Residential	4,520	3,023	3,129	3,240	3,352	3,470
Commercial, Industrial, Public Authority and Other *	1,306	94	97	100	104	107
TOTAL	**5,826**	**3,117**	**3,226**	**3,340**	**3,456**	**3,577**

* Commercial, Industrial and Municipal demand is projected to remain at an estimated 3% of total demand. There is currently no agricultural, nor recreational demand on the CSA 70, Zone L facilities.

WORST CASE WATER SUPPLY AVAILABILITY

CSA 70, Zone L utilizes groundwater from the El Mirage Groundwater Basin and the Upper Mojave Groundwater Basin as the total source of water supply. A lawsuit filed by the City of Barstow resulted in the entire Mojave River Basin being adjudicated, including the development of a basin wide water management plan prepared for the Mojave Water Agency (MWA).

CSA 70, Zone L is one of the parties that has agreed to the court approved stipulated judgement. Under the judgement, CSA 70, Zone L has a shared percentage of annual safe yield (production) in the respective basins. The safe yield (free production allowance) is subject to verification and annual adjustment by the Mojave Basin Area Water Master.

The El Mirage and the Upper Mojave Groundwater Basins provide water of high quality and treatment is not required. Each Basin is assumed to be in overdraft and CSA 70, Zone L wells have not yet experienced any lowering of the groundwater table. Utilizing the existing and past Southern California Edison pump tests for each well, the projected hypothetical total water supply as presented in Table 3-8 was developed.

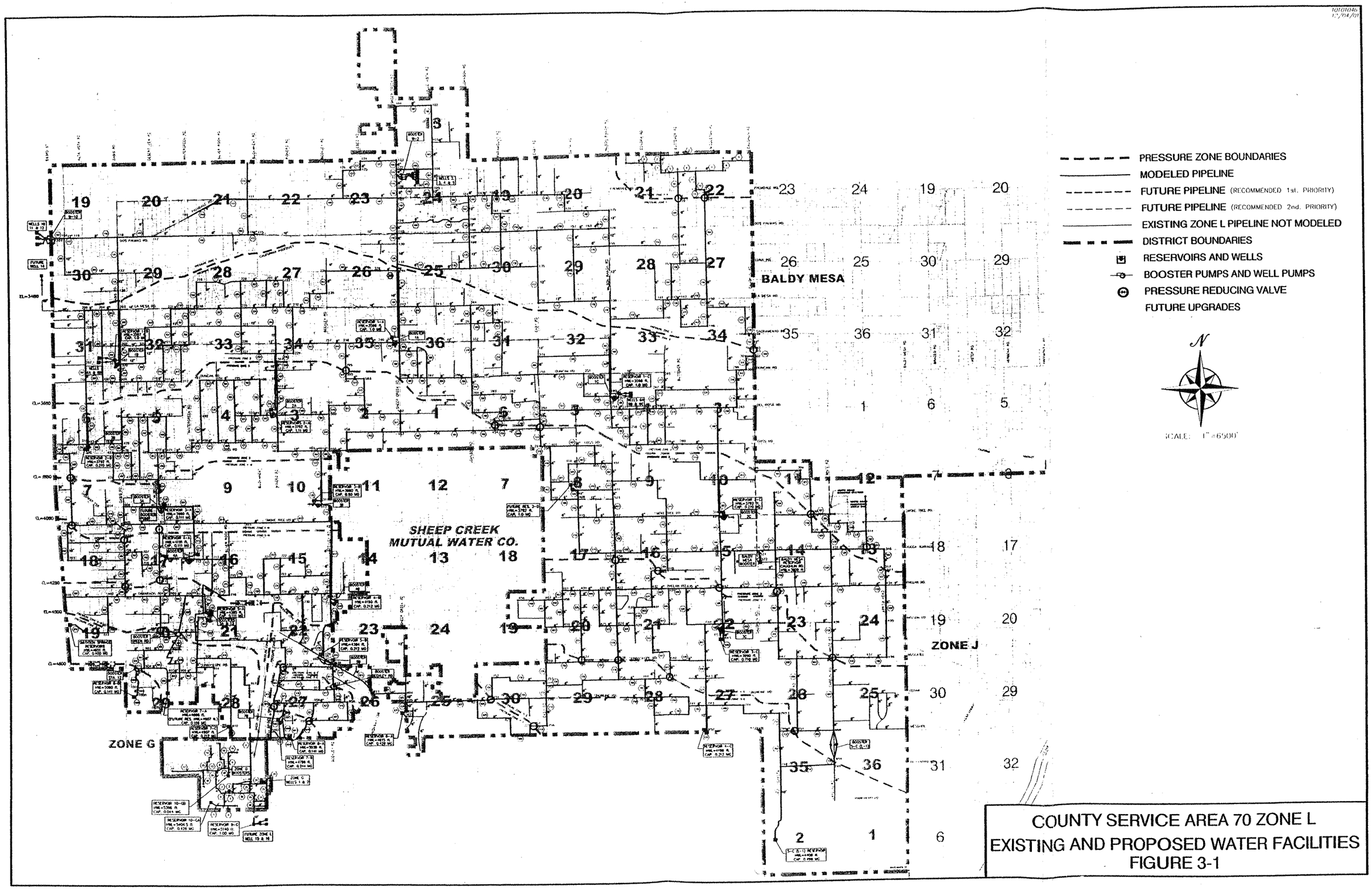
TABLE 3-8
Supply Sources and Worst Case Supply Projections

Source	Production 2000 (AF/YR) Base Year	Projected Worst Case 2001/02 (AF/YR)	Projected Worst Case 2002/03 (AF/YR)	Projected Worst Case 2003/04 (AF/YR)	Projected Worst Case 2004/05 (AF/YR)
Well 2	205	150	160	170	180
Well 3	261	250	260	270	280
Well 4	162	150	160	170	180
Well 5	455	430	440	450	450
Well 6A	444	400	410	440	470
Well 6B	191	200	220	230	250
Well 9A	227	200	220	230	240
Well 9B	370	350	370	400	430
Well 10	180	100	100	100	100
Well 11	56	0	0	0	0
Well 12	566	1000	1000	1000	1000
TOTALS	**3117**	**3230**	**3340**	**3460**	**3580**

CSA 70, Zone L maintains all of its well pumps in optimum efficiency range (overall 60% to 75% range). The District will continue to monitor the well pumping efficiencies, and if a given pump efficiency should drop below 50%, maintenance will be scheduled. Based on Edison tests, average overall pumping efficiency for all wells is approximately 65%.

WATER QUALITY AND EMERGENCY SUPPLIES

CSA 70, Zone L's water source is of high quality and has not experienced any detrimental contamination from past agricultural development. However, each well is equipped with an emergency disinfection (chlorination) system. Extended multi-week supply shortages caused by natural disasters (such as a major earthquake or accidents) are unlikely. Short term supply shortages due to breakdown of well pumps could be severe until the groundwater wells are back in production. CSA 70, Zone L's existing storage reservoirs could hold sufficient water to meet the health and safety requirements (68 gpcd) for customers for up to 6 days (13.8 ac-ft available storage) including an allowance of 0.65 ac-ft for fire protection during emergency situations.



COUNTY SERVICE AREA 70 ZONE L
EXISTING AND PROPOSED WATER FACILITIES
FIGURE 3-1

SECTION IV
WATER SHORTAGE CONTINGENCY ANALYSIS

SECTION IV

WASTER SHORTAGE CONTINGENCY ANALYSIS

STAGES OF ACTION

Ordinance No. SD 90-11 (Appendix "A") established water conservation measures during periods of water supply shortages and emergencies. The ordinance provides for prohibitions on wasteful water uses and permits daily irrigation of landscaped or vegetated areas only during specified hours. The Ordinance provides for a single stage of water reduction utilizing a combination of voluntary and mandatory conservation measures. Table 4-1 presents a four (4) tiered set of reduction goals and requested per capita demand to address various stages of water supply shortages.

TABLE 4-1
Reduction Goals

Shortage	Demand Reduction Goal	Requested Per Capita Demand (gpcd)	Type Program
Up to 10%	10% Reduction	198	Voluntary/Mandatory Conservation
11 - 20%	20% Reduction	176	Voluntary/Mandatory Conservation
21 - 35%	35% Reduction	143	Voluntary/Mandatory Conservation
36 - 50%	50% + Reduction	110	Voluntary/Mandatory Conservation

Priorities for use of available water for this shortage contingency plan are:

- Health and Safety - Interior residential and fire fighting;
- Commercial, Industrial and Municipal (in-office use) - Maintain jobs and economic base;
- Existing Landscaping - Especially trees and shrubs;
- New Demand - Projects under construction when shortage is declared.

Health and Safety water quantity calculations to determine the indoor per capita day (gpcd) requirements are provided below. The Health and Safety allotment is 68 gpcd (using non-conserving fixtures in Table 4-2 below). The total amount of water required to meet these health and safety needs was calculated by multiplying the allotment times 14,400 residents which is about 3.02 ac-ft per day (or 1,100 ac-ft per year). The projected year 2001/02 would be 15,335 residents and 1,168 af-yr.

TABLE 4-2
Per Capita Health & Safety Water Quantity Calculation
Per CA DWR September 1991 Information

NON-CONSERVING FIXTURES		
Toilets	5 Flushes x 5.5 gpf =	27.5
Showers	5 Minutes x 4.0 gpm =	20.0
Washer	One Third Load =	12.5
Kitchen	4 gpcd =	4.0
Other	4 gpcd =	4.0
	TOTAL	**68.0**
HCF Per Capita Per Year = 33 HCF (Hundred Cubic Feet)		
CONSERVING FIXTURES		
Toilets	5 Flushes x 1.5 gpf =	7.5

The Health and Safety minimum allotment of 68 gpcd provides sufficient water for essential interior use with little or no change of habit or plumbing fixtures. If individuals wish to change water use habits or plumbing fixtures, 68 gpcd is sufficient to allow for limited non-essential uses.

Based on the customer demand information in Table 3-7 and Ordinance No. SD 90-11, Table 4-3 presents the hypothetical water available to each customer group based on the different reduction goals presented in Table 4-1

TABLE 4-3
Water Supply Allocated by Priority for the Projected Year 2001/02

10% Reduction Requested	Residential Demand (AF)	Total Demand (AF)
Average Use - 2001/02	3,330	3,330
Requested Use	2,997	2,997
% Reduction	10%	10%
Average Use - 2001/02	3,330	3,330
Health/Safety	1,168	1,168
Commercial	0	0
Landscape	0	0
New Connections	Note (1)	Note (1)

Requested Use	2,664	2,664
% Reduction	20%	20%
Average Use - 2001/02	3,330	3,330
Health/Safety	1,168	1,168
Commercial	0	0
Landscape	0	0
New Connections	Note [1]	Note [1]
Requested Use	2,165	2,165
% Reduction	35%	35%
Average Use - 2001/02	3,330	3,330
Health/Safety	1,168	1,168
Commercial	0	0
Landscape	0	0
New Connections	Note [1]	Note [1]
Requested Use	1,665	1,665
% Reduction	50%	50%

[1] New Connections will be determined and appropriately approved by Office of the Special Districts consistent with Ordinance SD 90-A.

WATER SUPPLY SHORTAGE TRIGGERING LEVELS

CSA 70, Zone L has a legal responsibility to provide for the water needs of the community to meet health and safety standards. In order to minimize the social and economic impact of water shortages, CSA 70, Zone L will manage its water supply prudently. This plan is designed to maintain a minimum of 50 percent of normal supply during a severe or extended water shortage. The following demand reduction program triggering levels are established for consideration by the County Board of Supervisors to ensure that CSA 70, Zone L will continue to meet its obligations.

CSA 70, Zone L's water source is groundwater. The various stages of demand reduction could be triggered by unforeseen shortages (multiple breakdown of wells) at any time. The specific criteria for triggering the stages are listed in Table 4-4.

TABLE 4-4
Water Supply Rationing Triggering Levels Due to Shortages
(FY 2001/02 Normal Supply at 3,300 AFY)

Percent Shortage	Water Shortage	Minimum Water Required (Existing Customers)
Up to 10 percent supply reduction	Combined supply reductions totaling up to 333 AFY.	2,997 AFY
11 to 20 percent supply reduction	Combined supply reductions totaling between 366 AFY and 666 AFY.	2,964 to 2,664 AFY
21 to 35 percent supply reduction	Combined supply reductions totaling between 699 AFY and 1,165 AFY.	2,631 to 2,165 AFY
36 to 50+ percent supply reduction	Combined supply reductions totaling 1,665 AFY or more.	2,131 to 1,665 AFY

MANDATORY PROHIBITIONS ON WATER USE

California Water Code Section 10631 (e) (4) Mandatory provisions to reduce water use which include prohibitions against specific wasteful practices, such as gutter flooding.

The County Board of Supervisors adopted a "No Waste" Ordinance, Ordinance No. SD 90-11 in 1990, please refer to Appendix "A".

CONSUMPTION LIMITS

California Water Code Section 10631 (e) (5) Consumption limits in the most restrictive stages. Each urban water supplier may use any type of consumption limit in its water shortage contingency plan that would reduce water use and is appropriate for its area. Examples of consumption limits that may be used include, but are not limited to, percentage reductions in water allotments, per capita allocations, an increasing block rate schedule for high usage of water with incentives for conservation, or restrictions on specific uses.

CSA 70, Zone L has established the following restrictions on specific uses and other conservation measures.

1. Lawns, trees, shrubs, and other landscaping shall not be excessively watered at any time, and water shall not be permitted to run off private property onto streets or adjacent lands.

2. Sidewalks, walkways, driveways, parking areas, patios, porches or verandas shall not be washed off with hoses. The exception to this shall be flammable or other similar dangerous substances that require direct hose flushing.

3. Water, sprinkling, aerial watering or irrigating of any landscaped or vegetated areas,

including lawns, trees, shrubs, grass, ground cover, plants, vie gardens, vegetables, flowers or other landscaping shall not occur between the hours of 6:00 a.m. and 9:00 p.m. during high use season (April 1 through October 31 of each year). In the low use season (November 1 through March 31), such watering shall not occur between the hours of 1:00 p.m. and 8:00 a.m.. These restrictions shall not apply to hand-held hose or drip irrigation systems.

4. Non-commercial washing of privately owned vehicles, trailers, motor homes, buses, boats and mobile homes is prohibited except from bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.

5. Water shall not be used to clean, fill, operate or maintain levels in decorative fountains, unless such water is part of a recycling system.

6. Water shall not be permitted to leak from any waterline, faucet or other facility on any premises. Any leak shall be repaired in a timely manner.

7. Restaurants or other public places where food is served shall not routinely provide glasses of drinking water to customers unless specifically requested.

8. Water for construction purposes, including, but not limited to, debrushing of vacant land, compaction of fills and pads, trench backfill and other construction uses, shall be used in an efficient manner. The use of "rainbird" type sprinklers is not recommended between the hours of 6:00 a.m. and 6:00 p.m..

9. The use of water for any purpose shall not result in flooding or runoff onto gutters, driveways, streets or adjacent lands.

10. All new construction, including residential, commercial and industrial, shall be equipped with low flow toilets with a maximum tank size or flush capacity of three (3) gallons, and showerheads with a maximum flow capacity of two (2) gallons per minute.

11. All new model homes, commercial and industrial development, when landscaped, shall include low water use, drought-tolerant or native plant material, and matched precipitation rate, low-gallonage sprinkler heads, bubblers, drip irrigation and timing devices. Timing devices should include soil moisture sensors. Before any permit may be issued for new construction, the applicant shall submit a landscape plan for review and approval by the Director of San Bernardino County's Department of Land Management.

12. Water used for cooling systems must be recycled to the extent possible.

13. Evaporation resistant covers are required for all new swimming pools and hot tubs and are encouraged for existing pools. Safety covers required by this ordinance shall, at the time of purchase, installation and all subsequent maintenance, meet or exceed current standards and specifications for swimming pools, spa and hot tub covers adopted by the American Society for Testing and Materials (ASTM).

14. Hotels/motels are required to post notices urging guests to conserve water.

15. All current water customers are encouraged to install flow reducers and faucet aerators.

16. Parks, golf courses, cemeteries and school grounds which use water provided by the Districts, shall irrigate between the hours of 9:00 p.m. and 3:00 a.m..

Customers will be notified of the specific percentage reductions requested at each level of shortage as presented in Table 4-1. If further water usage reduction beyond the present request of 10% is warranted, CSA 70, Zone L staff will inform customers of the need for greater conservation. If reduction goals cannot be met by Ordinance No. SD 90-11, the County Board of Supervisors must take appropriate actions (after public hearings) which are supported by thorough engineering evaluations.

PENALTIES OR CHARGES FOR EXCESSIVE USE

California Water Code Section 10631 (e) (6) Penalties or charges for excessive use

CSA 70, Zone L current water rate structure is as follows:

Minimum Monthly Charge:	
(3/4" meter sizes)	$ 8.50
(1" meter sizes)	$11.65
Water Commodity Rates:	$1.12/unit for 0 to 14 units per month
(1 unit = 100 cf)	$1.24/unit for 14 to 80 units per month
	$1.28/unit above 80 units per month

A customer who violates any provisions of this plan or Ordinance No. SD 90-11 will be subject to the following penalties as identified in Ordinance No. SD 90-11.

For a first violation, the District shall issue a written Notice of Violation. For a customer who has a second violation or who fails to comply with the Notice of Violation, the District may, at its option, install a flow restricting device or may disconnect the user from the District's water system.

All costs of installing/removing the flow restrictor or of disconnection/reconnection shall be paid by the owner of the property.

ANALYSIS OF REVENUE AND EXPENDITURE IMPACTS

California Water Code Section 10631 (e) (7) An analysis of the impacts of the plan on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.

Based on information provided in the February 2001 CSA 70, Zone L Hydraulic Analysis Report, a brief review of the CSA 70, Zone L operations indicates that reduced water sales due to demand reduction will impact the District's revenues. However, with the recuded per capita water consumption, it will aslo reduce water replenishment payment to the Mojave basin area water master

The annual CSA 70, Zone L budget depends upon water sales representing over 75% of the total annual revenue. Consumption related costs account for only 40% of the total annual expenditures. If demand reduction requests are met, water sales will decrease, fixed operating costs will remain the same and will not be sufficient to cover total Zone L costs. Subsequent analysis is by staff recommended adjustment of water reate schedules to more allign with the fixed costs. Under an adjusted fixed cost rate structure, the impact of reduced water sales will not be as significant

PLAN IMPLEMENTATION

California Water Code Section 10631 (e) (8) A draft water shortage contingency resolution or ordinance to carry out the Urban Water Shortage Contingency Plan.

The CSA 70, Zone L is operating under Ordinance No. SD 90-11 establishing water conservation measures which will support this Water Shortage Contingency Plan. Ordinance No. SD 90-11 provides for a permanent single stage of conservation.

PLAN ADOPTION STANDARDS

California Water Code Section 10621 (a) Each urban water supplier shall, not later than January 31, 1992, prepare, adopt and submit to the department an amendment to its urban water management plan which meets the requirements of subdivision (e) of Section 10631.

CSA 70, Zone L began preparation of its Water Shortage Contingency Plan in January 1992. The Plan was updated and finalized in November 1994 and was adopted on December 20, 1994 by the County Board of Supervisors. The Plan included all the information necessary to meet the requirements of subdivision (e) of California Water Code Section 10631. This is an update of the adopted plan.

California Water Code Section 10642 Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to California Water Code Section 6066 of the Government Code. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

Public meetings and the availability of copies of the Draft Water Shortage Contingency Plan were available for public review at the Water and Sanitation Operations offices and at local libraries. CSA 70, Zone L held public meetings prior to adoption of the Water Shortage Contingency Plan.

California Water Code Section 10656 An urban water supplier that does not submit an amendment to its urban water management plan pursuant to subdivision (a) of Section 10621 to the department by January 31, 1992, is ineligible to receive drought assistance form the state until the Urban Water Management Plan is submitted pursuant to Article 3 (commencing with Section 10640) of Chapter 3.

CSA 70, Zone L submitted a Water Shortage Contingency Plan to the Department of Water Resources on January 10, 1995. This updated Plan is submitted in conjunction with the updated Urban Water Management Plan which meets the requirements of subdivision (e) of Water Code Section 10631.

SECTION V
WATER RECYCLING

SECTION V

WATER RECYCLING

WASTEWATER COLLECTION AND TREATMENT

Currently, wastewater within the service boundary of County Service Area 70, Zone L is being returned to the groundwater basin through existing septic tank and leach-pit or leach-line systems. There are currently no public sewerage facilities in the area.

There are only a few small package wastewater treatment facilities owned and operated by each commercial facility. These commercial facilities are located along Phelan Road (From East to West). It can be a feasible consideration for centralizing the wastewater treatment for the future plan.

RECYCLED WATER AND POTENTIAL USES

As pointed out in the above paragraph, there has been no reuse of the wastewater. To meet the long term water supply needs of the Upper Mojave River Groundwater Basin area (or the Victor Valley area), water recycling (reuse) is a key component. Such use is also strongly supported by the State of California. Recycled water (meeting California Title 22 standards) could be used for existing and future community and landscape irrigation within CSA 70- L.

SECTION VI
CURRENT AND ALTERNATIVE CONSERVATION MEASURES

SECTION VI

CURRENT AND ALTERNATIVE CONSERVATION MEASURES

CSA 70, Zone L provides relatively reasonably priced and high quality water to its customers, and is in the process of upgrading its facilities (pumping, storage and transmission) to handle emergencies. CSA 70, Zone L staff recognize that water is a valuable resource and should be conserved.

Within the greater Victor Valley area (including Phelan and Pinon Hills), the Mojave Water Agency is responsible for groundwater basin management and is also the regional contracting agency for the State Project Water. The Mojave Water Agency has maintained an on-going "water conservation program" since its inception. A lawsuit filed by the City of Barstow several years back resulted in the entire Mojave River Basin being subject to adjudication, including the development of a basin wide water management plan prepared for the Mojave Water Agency. Under the court approved stipulated judgement, the shared free production allowance (safe yield) of each water producer was reduced by 20% over a four (4) year period. Any production (pumping) of water above the adjusted free production allowance will require the producer to pay for replenishment water to the Mojave Area Basin Water master. Therefore, each water customer must actively participate in water conservation. This chapter briefly summarizes the conservation efforts of CSA 70, Zone L.

CURRENT CONSERVATION MEASURES

The CSA 70, Zone L active involvement in water conservation measures cover both its system as well as public awareness as follows:

Xeriscaping: Xeriscaping is a low water landscaping that usually consists of colored rock or gravel patterns and drought tolerant plants. CSA 70, Zone L promotes this aesthetically pleasing alternative to water intensive landscaping. CSA 70, Zone L's participation in publishing a booklet about xeriscaping and drought tolerant plants is discussed under General Public Information Program.

Low Flow Flushing Devices: Low flow toilet flushing is now required for all new home constructions. Additionally, CSA 70, Zone L encourages efforts by homeowners to replace old devices with new low water use devices.

Leak Detection and Repair Program: In operating any water supply/distribution system, certain losses are inevitable. Each year CSA 70, Zone L staff perform the following steps to assure that unnecessary water loss before sales are kept to the minimum:

- Periodically inspect for leaks in the 280 plus miles of pipeline;

- Zone L is in the process of increasing staff on duty to respond more efficiently to calls on pipe ruptures and leaks and have the leaks promptly repaired;

- Periodically locate and exercise control/shut-off valves such that leaks (in the event it occurs) can be corrected in a timely manner.

The CSA 70, Zone L leak detection program includes a meter check and calibration effort. Total volume of sales are compared with estimated volume of water pumped. Currently, Zone L has approximately 7% unaccounted for water supply.

Corrosion Control: This program is aimed at reducing deterioration of pipeline and storage tanks to prevent leaks and therefore conserve water. Most existing facilities are less than 20 years old and pipeline leaks do not represent a significant concern in the system. Coated surfaces of steel storage tanks are routinely inspected and repairs are made as required to increase the service life of these facilities.

Soil within the CSA 70, Zone L service area generally has a high sand content, therefore, cathodic corrosion is generally non-existent.

Rate Structure and Enactment of Conservation Ordinance: The CSA 70, Zone L rate structure (amended July 2000) covers a fixed minimum monthly fee and a step-up incremental rate adjustment for consumption above the base allocation. The basic minimum fee will be adjusted upward to reflect increases in pumping power/operating cost.

The County Board of Supervisors, as the governing Body of CSA 70 Zone L, has also adopted an Ordinance No. SD 90-11 establishing water conservation measures. (See Appendix "A").

General Public Information Program: CSA 70, Zone L utilizes computerized billing format. On a regular basis, notations are placed on these billings to remind and encourage its customers to conserve water. Several pocket bulletins are printed through the American Water Works Associations and made available to its customers at District offices (as handouts across the service counters). These bulletins include titles such as: "The ABC's of Water Conservation", "Wise Water Use Outdoors" and "About Groundwater Protection". CSA 70, Zone L has also participated in the funding and production of a booklet entitled "A Guide to High Desert Landscaping" to help advance public awareness of the merits of xeriscaping and native desert plants. The booklet is being distributed to local nurseries, public libraries landscaping contractors, and Zone L's customers.

Public Education/School Programs: Each year, CSA 70, Zone L staff participates in an area wide water conservation awareness program (Victor Valley Water Expo).

ALTERNATIVE CONSERVATION MEASURES

While CSA 70, Zone L will continue to support its current water conservation programs, the

following are items that the County Board of Supervisors, Office of Special Districts, and the Local Advisory Committee may consider.

Home Retrofitting of Plumbing: CSA 70, Zone L is supportive of local energy utilities in their programs to encourage retrofitting of water saving shower and toilet devices. This effort conserves both water and energy.

Landscape Irrigation Control: Water waste through dilapidated irrigation systems often remains unnoticed. These irrigation systems frequently utilize materials and construction techniques which cannot withstand water pressures common to municipal distribution networks. In addition, dispersion nozzles which spray a mist into the air do little to provide moisture to root zones in the ground. Some measures have been taken to improve the efficiency of irrigation, such as the establishment of legal watering hours between 9:00 p.m. and 6:00 a.m., (particularly during hot summer months) to reduce evaporation.

One water use efficiency measure might be to allow only drip irrigation systems conforming to high pressure rating to be installed in all new developments. Drip irrigation eliminates spray type water dispersal and can effectively saturate the soil. Another consideration for more water intensive landscapes might be the introduction of a hydro-phillic polymer to topsoil. This material greatly reduces the number of water applications by retaining larger amounts of moisture near the surface.

This will be closely coordinated with a published brochure (jointly with several local water agencies) entitled "A Guide to High Desert Landscaping" (as mentioned earlier in this chapter).

Conservation for Specific Water Users: Existing customers within the CSA 70, Zone L service area are predominately low density residential with an average water consumption per person of an estimated 195 gallons per day (including unaccounted for water). As other types of development (higher density residential and commercial) are established in the area, CSA 70, Zone L staff would extend efforts to monitor these water users. Water conservation techniques and approaches (such as changing our daily water waste habits), available through publications by the Department of Water Resources or American Water Works Association, could be abstracted for each specific type of water user and made available to them. This information could also be distributed to local building designers and contractors to encourage their assistance in water conservation efforts.

Use of Greywater: The County of San Bernardino currently has an adopted policy pertaining to review/approval of the use of greywater for subsurface residential landscape irrigation. The County of San Bernardino, Environmental Health Services has also published a pamphlet entitled "Clear Answers to Using Greywater" that explains a simple gravity flow system for discharging washing machine wastewater below the ground, to the plant root systems. The pamphlet can be obtained by contacting the County Department of Environmental Health Services, Water/ Wastewater Program, telephone number (909) 387-4666.

Wastewater Reclamation: A portion of the water used in CSA 70, Zone L is being returned to the groundwater basin through existing septic systems. There are currently no sewerage or public wastewater treatment facilities in the area.

IMPLEMENTATION SCHEDULE

CSA 70, Zone L, as evidenced by information presented in this Plan, recognizes the need for water conservation and water reuse. CSA 70, Zone L will continue to support and implement its current conservation measures as discussed in Chapter 3. The alternative conservation measures discussed in this Chapter will be reviewed by the County Board of Supervisors and the Office of Special Districts. Conservation measures such as direct reuse of greywater and treated wastewater effluent requires the education and acceptance of the public and a great deal of public relations effort. Therefore, a definite time-table is not practical at this time.

APPENDIX

ABBREVIATIONS

The following are abbreviations that may be used in this report.

AWWA	American Water Works Association
CSA	County Service Area
CWD	County Water District
DOF	Department of Finance
DWR	California Department of Water Resource
EDA	Economic Development Administration
ENR	Engineering New Record
EPA	United States Environmental Protection Agency
FmHa (FHA)	Farmers Home Administration
HUD	Department of Housing and Urban Development
HWD	Hesperia Water District
LAFC	Local Agency Formation Commission
MWA	Mojave Water Agency
PUC	Public Utilities Commission
SCAG	Southern California Association of Governments
SCE	Southern California Edison
USCGS	United States Coast and Geodetic Survey
USGS	United States Geological Survey
USPHS	United Stated Public Health Service
VVWD	Victor Valley Water District
VVWRA	Victor Valley Wasterwater Reclamation Authority

ADD	Average Day Demand
ac-ft	acre-feet
cfs	cubic-feet per second
cu.ft.	cubic feet
gpcd	gallons per capita per day
gpd	gallons per day
gpm	gallons per minute
hp	horsepower
MDD	Maximum Day Demand
MG	Million Gallons
mgd	million gallons per day
mg/l	milligrams per liter
ppm	parts per million
PRV	Pressure Reducing Valve
psi	pounds per square inch
TDH	Total Dynamic Head (pumps)

APPENDIX "A"

ORDINANCE NO. SD 90-11

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACTING IN ITS CAPACITY AS THE GOVERNING BODY OF NAMED COUNTY SERVICE AREAS AND IMPROVEMENT ZONES THEREOF, ESTABLISHING WATER CONSERVATION MEASURES.

The Board of Supervisors of the County of San Bernardino, State of California, acting in its capacity as the governing body of the county service areas and improvement zones named in Section 1 (a) of this ordinance, ordains as follows:

SECTION 1. The Board of Supervisors of the County of San Bernardino hereby finds and determines.

(a) That from and after the effective date of this ordinance, it shall be in full force and effect within the following county service areas and improvement zones:

County Service Area 42	Improvement Zone J
County Service Area 64	Improvement Zone L
County Service Area 70	Improvement Zone W-1
Improvement Zone C	Improvement Zone W-3
Improvement Zone F	Improvement Zone W-4
Improvement Zone G	

(b) That a drought condition has existed within the above-named county service areas and improvement zones ("Districts", or individually, the "District") during the past four years and such condition poses a substantial, current threat to the water supply within these areas;

(c) That is necessary to preserve the water supply for the greatest public benefit within these Districts;

(d) That in order to preserve the health and safety of the people within these Districts, water conservation measures are necessary;

(e) That all water users in these Districts shall be subject to the water conservation measures and related provisions established herein;

(f) That in order to conserve the waters supply for the greatest public benefit, with particular regard to domestic use, sanitation and fire protection of consumers, it is necessary to restrict the use of water within each District's service area.

SECTION 2. In order to conserve the water supply within these Districts and pursuant to Water Code Section 375-377, the following water conservation measures are hereby established:

(a) Lawns, trees, shrubs, and other landscaping shall not be excessively watered at any time, and water shall not be permitted to run off private property onto streets or adjacent lands.

(b) Sidewalks, walkways, driveways, parking areas, patios, porches or verandas shall not be washed off with hoses. The exception to this shall be flammable or other similar dangerous substances that require direct hose flushing.

(c) Water, sprinkling, aerial watering or irrigating of any landscaped or vegetated areas, including lawns, trees, shrubs, grass, ground cover, plants, vie gardens, vegetables, flowers or other landscaping shall not occur between the hours of 6:00 a.m. and 9:00 p.m. during high use season (April 1 through October 31 of each year). In the low use season (November 1 through March 31), such watering shall not occur between the hours of 1:00 p.m. and 8:00 a.m.. These restrictions shall not apply to hand-held hose or drip irrigation systems.

(d) Non-commercial washing or privately owned vehicles, trailers, motor homes, buses, boats and mobile homes is prohibited except from bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.

(e) Water shall not be used to clean, fill, operate or maintain levels in decorative fountains, unless such water is part of a recycling system.

(f) Water shall not be permitted to leak from any waterline, faucet or other facility on any premises. Any leak shall be repaired in a timely manner.

(g) Restaurants or other public places where food is served shall not routinely provide glasses of drinking water to customers unless specifically requested.

(h) Water for construction purposes, including, but not limited to, debrushing of vacant land, compaction of fills and pads, trench backfill and other construction uses, shall be used in an efficient manner. The use of "rainbird" type sprinklers is not recommended between the hours of 6:00 a.m. and 6:00 p.m..

(i) The use of water for any purpose shall not result in flooding or runoff onto gutters, driveways, streets or adjacent lands.

(j) All new construction, including residential, commercial and industrial, shall be equipped with low flow toilets with a maximum tank size or flush capacity of three (3) gallons, and showerheads with a maximum flow capacity of two (2) gallons per minute.

(k) All new model homes, commercial and industrial development, when landscaped, shall include low water use, drought-tolerant or native plant material, and matched precipitation rate, low-gallonage sprinkler heads, bubblers, drip irrigation and timing devices. Timing devices should include soil moisture sensors. Before any permit may be issued for new construction, the applicant shall submit a landscape plan for review and approval by the Director of San Bernardino County's Department of Land Management.

(l) Water used for cooling systems must be recycled to the extent possible.

(m) Evaporation resistant covers are required for all new swimming pools and hot tubs and are encouraged for existing pools. Safety covers required by this ordinance shall, at the time of purchase, installation and all subsequent maintenance, meet or exceed current standards and specifications for swimming pools, spa and hot tub covers adopted by the American Society for Testing and Materials (ASTM).

(n) Hotels/motels are required to post notices urging guests to conserve water.

(o) All current water customers are encouraged to install flow reducers and faucet aerators.

(p) Parks, golf courses, cemeteries and school grounds which use water provided by the Districts, shall irrigate between the hours of 9:00 p.m. and 3:00 a.m..

SECTION 3. The following provisions shall pertain to the enforcement of this ordinance, violations of the measures established herein and the penalties for such violations:

(a) Violations unlawful. It is unlawful for any person within the District to violate the water conservation measures and provisions established in this ordinance and such violation shall be subject to the penalties hereinafter set forth and as may be otherwise provided by law.

(b) Violations. Any person found to be violating any provision of this ordinance or any rule or regulation of the District shall be served by the District with written notice stating the nature of the violation and providing a reasonable time limit for the correction thereof. Such notice may be personally served or may be given by certified mail. The person shall, within the time limit stated in the notice, cease all violations.

(c) Civil Enforcement. For second violations or continuing violations, as additional methods of civil enforcement of this ordinance, the District may install a flow restrictor device at the user's water meter or may disconnect the user from the District's water system, following notice of intent to disconnect. All costs of installing/removing the flow restrictor or of disconnection/ reconnection shall be paid by the owner of the property.

(d) Suspension or Modification. When any person, by reason of special circumstances, believes that a suspension or modification of a provision of this ordinance is necessary to avoid substantial detriment to the person's property or facilities, that person may file a written application with the District Manager and with the Special Districts Department, stating the special circumstances, citing the provision involved and requesting suspension or modification of that provision. The Director of the Special Districts Department may suspend or modify the provision for a specified period of time or during the period of the special circumstances upon finding that the enforcement of the provision will cause substantial detriment to the person and that the suspension or modification of the provision will not unreasonably jeopardize the District's water supply.

(e) General Penalty. Pursuant to Water Code 377, any person violating any of the provisions of this ordinance and failing to correct such violation within the time provided shall be guilty of misdemeanor. Such misdemeanor shall be punishable in accordance with the provisions of State Law.

SECTION 4. This ordinance and the various parts, sentences, paragraphs, sections and clauses are hereby declared to be severable. If any such part, sentence, paragraph, section or clause is adjudged unconstitutional or invalid, the remainder of this ordinance shall not be affected. The Board hereby declares that it would have passed the ordinance and each part thereof regardless of the fact that one or more parts might be declared unconstitutional or invalid.

SECTION 5. Ordinance No. 90-7 is hereby repealed.

SECTION 6. Pursuant to Water Code Section 376, this ordinance is effective upon adoption.