

Appendix C: Correspondences

- UWMP Notice of Preparation, March 10, 2016
- Growth Projection Letter to Cities and Counties
- UWMP Public Draft Comments

Appendix C: Correspondences

- UWMP Notice of Preparation, March 10, 2016



CALIFORNIA WATER SERVICE

1720 North First Street
San Jose, CA 95112-4598 Tel: (408) 367-8200

March 10, 2016

[Name_F] [Name_L]
[Organization]
[Address]
[City], CA [ZipCode]

Dear [Title] [Name_L]:

California Water Service (Cal Water) is committed to providing safe, reliable, and high-quality water utility service in our Bear Gulch service area. At Cal Water, one of our top priorities is ensuring that our customers have a sustainable supply of water for decades to come.

With that in mind, we wanted to take this opportunity to let you know that we are updating our Urban Water Management Plan (UWMP) for this service area. This UWMP is reviewed and updated every five years pursuant to the Urban Water Management Plan Act, and will be completed by July 1, 2016. Our UWMP is a foundational document that supports our long-term water resource planning to ensure our customers have adequate water supplies to meet current and future demands.

Proposed revisions to our 2010 UWMP will be made available for public review, and we will be holding a public hearing, during which the updates for the 2015 UWMP will be discussed. The draft 2015 UWMP and the date, time and location of the public hearing will be available on our web site in a few weeks at www.calwater.com/conservation/uwmp. A hard copy of the draft UWMP will also be available at our Bear Gulch Customer Center located at 3525 Alameda De Las Pulgas, Suite A, Menlo Park, CA 94025.

If you have any questions about the UWMP for this service area, please contact Michael Bolzowski, Cal Water Senior Engineer, at (408) 367-8338 or e-mail Planninginfo@calwater.com.

Sincerely,

A handwritten signature in black ink that reads "Scott Wagner".

Scott Wagner
Director of Capital Planning & Water Resources

Nicole Sandkulla
Senior Water Resources Planning Manager
Bay Area Water Supply and Conservation
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Appendix C: Correspondences

- Growth Projection Letter to Cities and Counties

Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, August 20, 2015 9:28 AM
To: 'Virginia Parks (vkfparks@menlopark.org)'; 'Irv Meachum (immeachum@menlopark.org)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Smithson, Dawn; Carrasco, Anthony
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Bear Gulch District
Attachments: Letter to City Planning Officials - Attachmet - BG.pdf

Tracking:	Recipient	Delivery
	'Virginia Parks (vkfparks@menlopark.org)'	
	'Irv Meachum (immeachum@menlopark.org)'	
	Salzano, Tom	Delivered: 8/20/2015 9:28 AM
	Bolzowski, Michael R.	Delivered: 8/20/2015 9:28 AM
	Keck, Jonathan	Delivered: 8/20/2015 9:28 AM
	Smithson, Dawn	Delivered: 8/20/2015 9:28 AM
	Carrasco, Anthony	Delivered: 8/20/2015 9:28 AM

Dear Ms. Parks and Mr. Meachum,

Pursuant to California Water Code, Division 6, Part 2.6, Sections 10610 through 10656, California Water Service is in the process of preparing the required 2015 update of our Urban Water Management Plans. These plans are required to be updated every five (5) years for each of our services areas (Districts). As you know our Bear Gulch District provides water service to the City of Menlo Park.

The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

- Single family residential
- Multi-family residential
- Commercial
- Industrial
- Government (City or County parks, median strips, landscaping and schools)
- Dedicated Irrigation (rare)
- Other (temporary construction meters)

The forecasted growth rates are combined with a demand per service factor applicable to each customer class to determine the future water demands for the district. These growth factors are adjustable and we want to review them with you so that we are consistent with anticipated growth that your planning efforts forecast. If adjustments are necessary we can do them now and avoid conflicts and confusion later in this process.

Some specific information regarding our approach to forecasting customer service growth is detailed as follows:

- **Residential** – Typically two residential customer service categories represent the vast majority of the service counts as well as subsequent water sales or demand in our districts. Cal Water considers both single family and multi-family residential services independently as individual classes, but combines them together in order to assess population growth and housing unit growth. While we use historical trends in the establishment for the growth rates for these two customer classes, we also analyze census data for population and housing factors and compare our forecast results for these two parameters with

available data from City General Plans, as well as County Economic Forecast data and Regional government association forecasts as a reality or appropriateness check of our results.

- **Commercial & Industrial** – Historical trend is a key influence in this customer class, however where we have seen negative trends in recent years for these categories due to the economic downturn, we typically employ either a zero rate of growth or a small, reasonable positive rate of growth. We have also undertaken during the last ten years some reassessment of customer service classifications that has resulted in reallocation of some customer service accounts between various classes. This reallocation, which included commercial, industrial, multi-family residential and in some cases government services, has made the analysis of growth a bit more difficult.
- **Government** – Growth trends are generally parallel to that of the residential sector, so we verify that our rate of grow is not dramatically out-of-sequence with the overall community.
- **Other** – The use of temporary-assigned construction meters varies considerably from year to year, and can represent considerable water demand. In this case, we select a growth rate that is stable, yet reflects the overall growth of the community.

We have included with this communication a set of tables and graphs (see attachment) that illustrate the parameters that influence the growth forecast as currently set up for this district. These include:

- A. The historical and projected service data in both graph and table form
- B. The 2000 and 2010 Census data for the districts service area
- C. Housing projection chart comparing Cal Water’s forecast (always in red) with those from other organizations
- D. Population projection chart comparing Cal Water’s forecast (always in red) with those from other organizations
- E. Table of population and housing values along with multi-family residential unit density and persons per housing unit density that are employed in this forecast effort.

Please note that the 2015 data, which we need to include in our finished forecast, is not yet final, and some minor fluctuation of these values is possible.

Please examine these documents to determine if you concur with our forecasted housing and population numbers. It would be greatly appreciated if you could, by **September 11, 2015**, provide us with an indication of your support or in the case you do not agree with our forecast a reason why and the appropriate rate or growth pattern that we should employ. **If I do not hear back from you by the end of business (EOB) on the above date I will assume that you concur with our forecast.**

If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

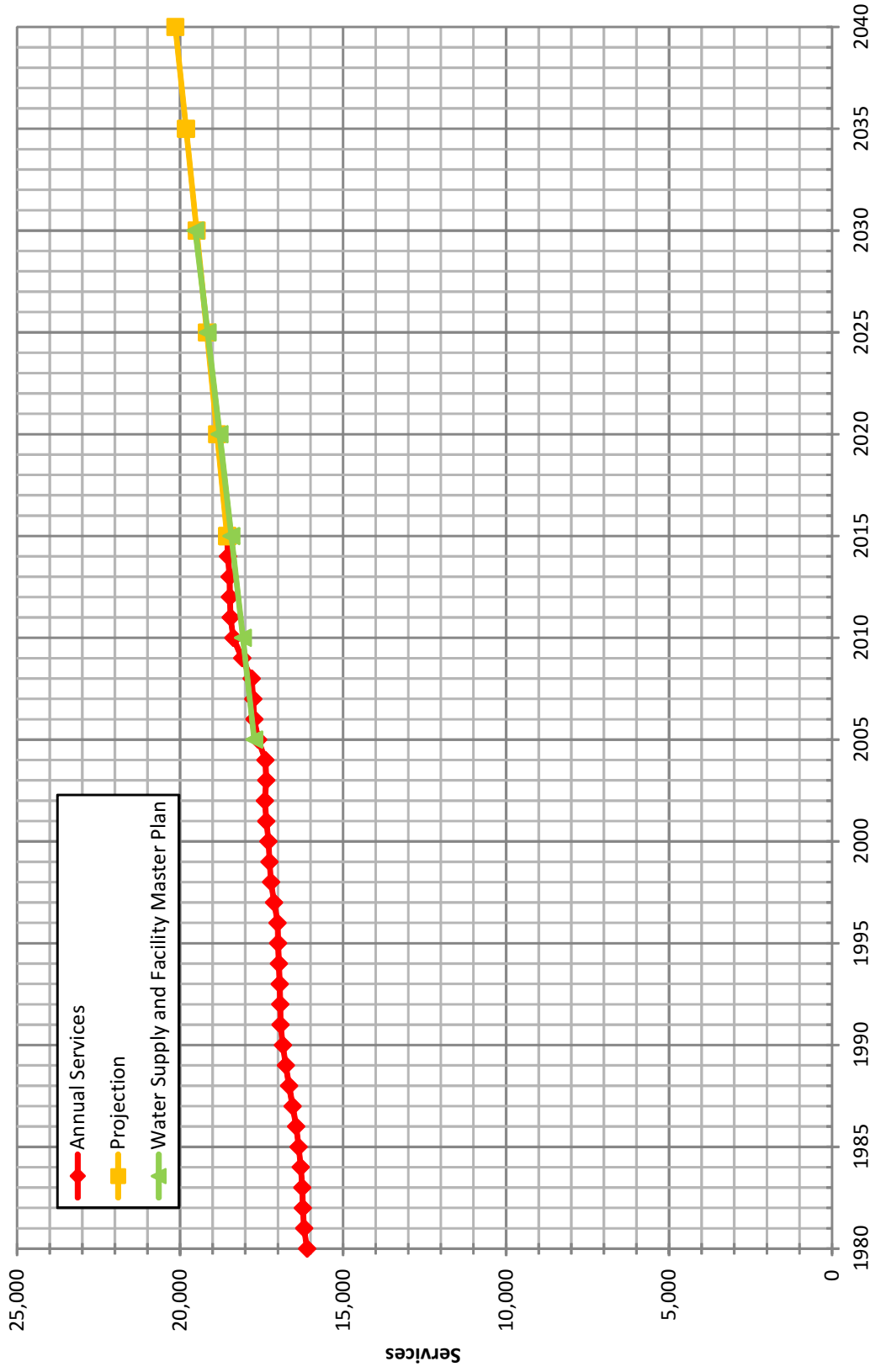
Danilo Blanusa, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE

408-367-8387



Quality. Service. Value.
calwater.com

Historical & Projected Services



California Water Service Company - Bear Gulch District

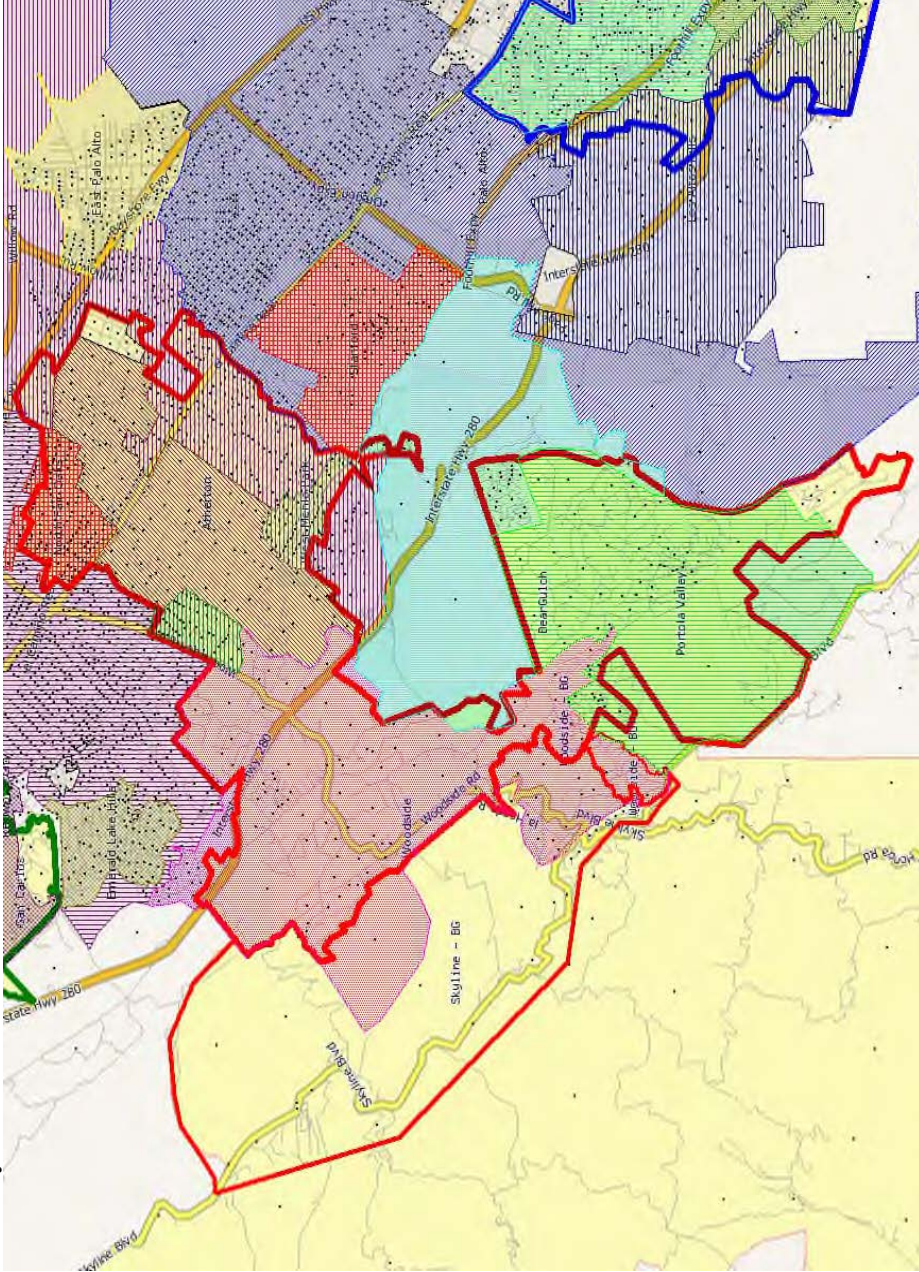
Water Supply and Demand Analysis and Projections

Actual & Projected Annual Average Services

Customer Category	Selected Trend	Growth Rate	Actual Services					Projected Services						
			2000	2005	2010	2015	2020	2025	2030	2035	2040			
SFR	SFR_B 5 Yr. Avg.	0.32%	15,816	16,134	16,781	16,972	16,972	17,245	17,523	17,805	18,092	18,383		
MFR	MFR_B 5 Yr. Avg.	1.72%	64	63	75	89	89	97	105	115	125	136		
COM	COM_D 15 Yr. Avg.	0.36%	1,276	1,284	1,365	1,346	1,346	1,371	1,396	1,422	1,448	1,474		
IND	IND_A Zero Growth Rate	0.00%	1	1	1	1	1	1	1	1	1	1		
GOV	GOV_C 10 Yr. Avg.	0.13%	96	95	116	119	119	120	120	121	122	123		
OTH	OTH_A Zero Growth Rate	0.00%	34	30	24	20	20	20	20	20	20	20		
IRR	IRR_A Zero Growth Rate	0.00%	0	0	7	8	8	8	8	8	8	8		
TOTAL	Average growth rate 2011-2040	0.33%	17,288	17,607	18,369	18,555	18,555	18,861	19,174	19,492	19,815	20,145		

Notes:

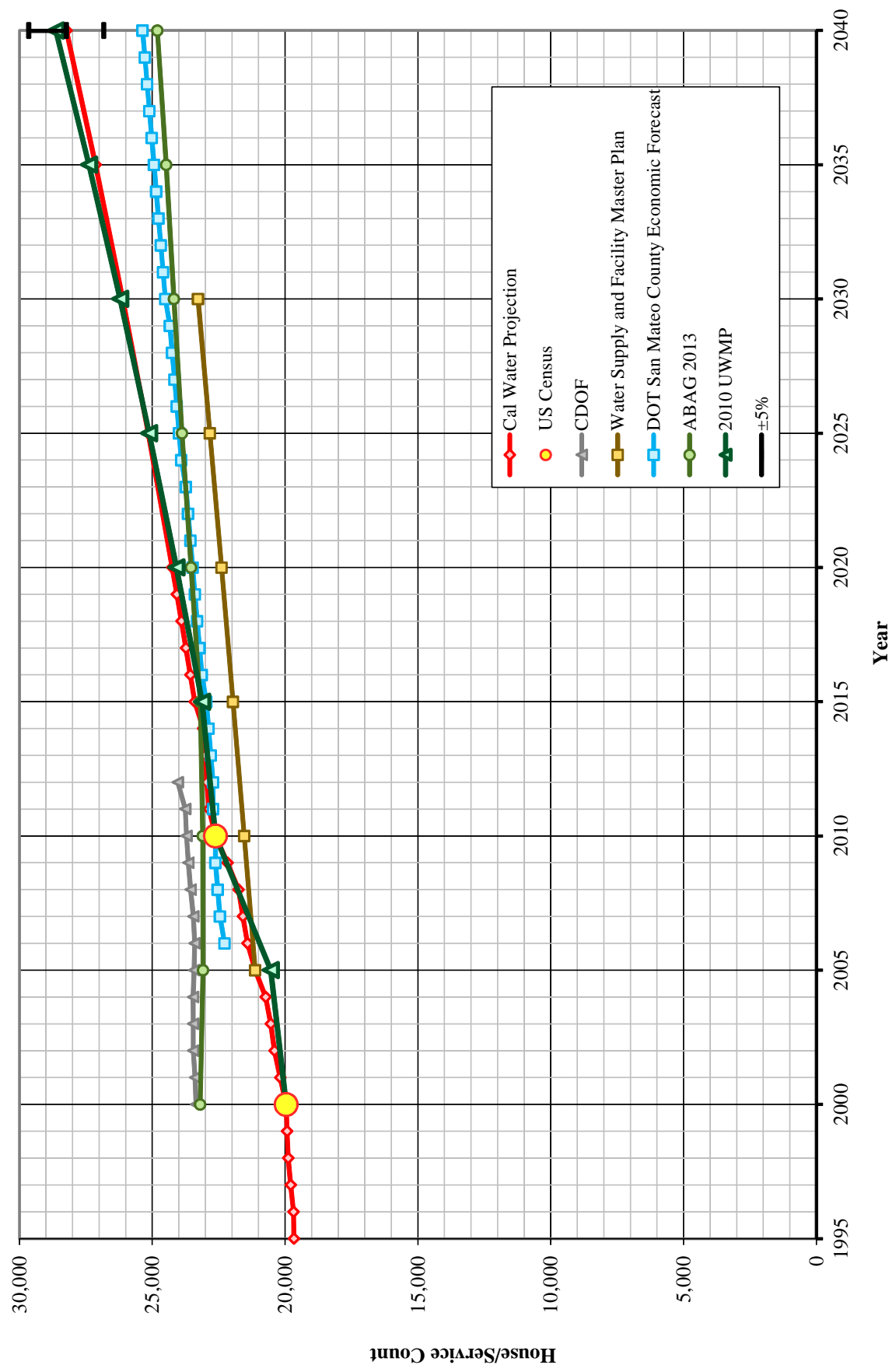
California Water Service Company - Bear Gulch District Water Supply and Demand Analysis and Projections Marplot Summary



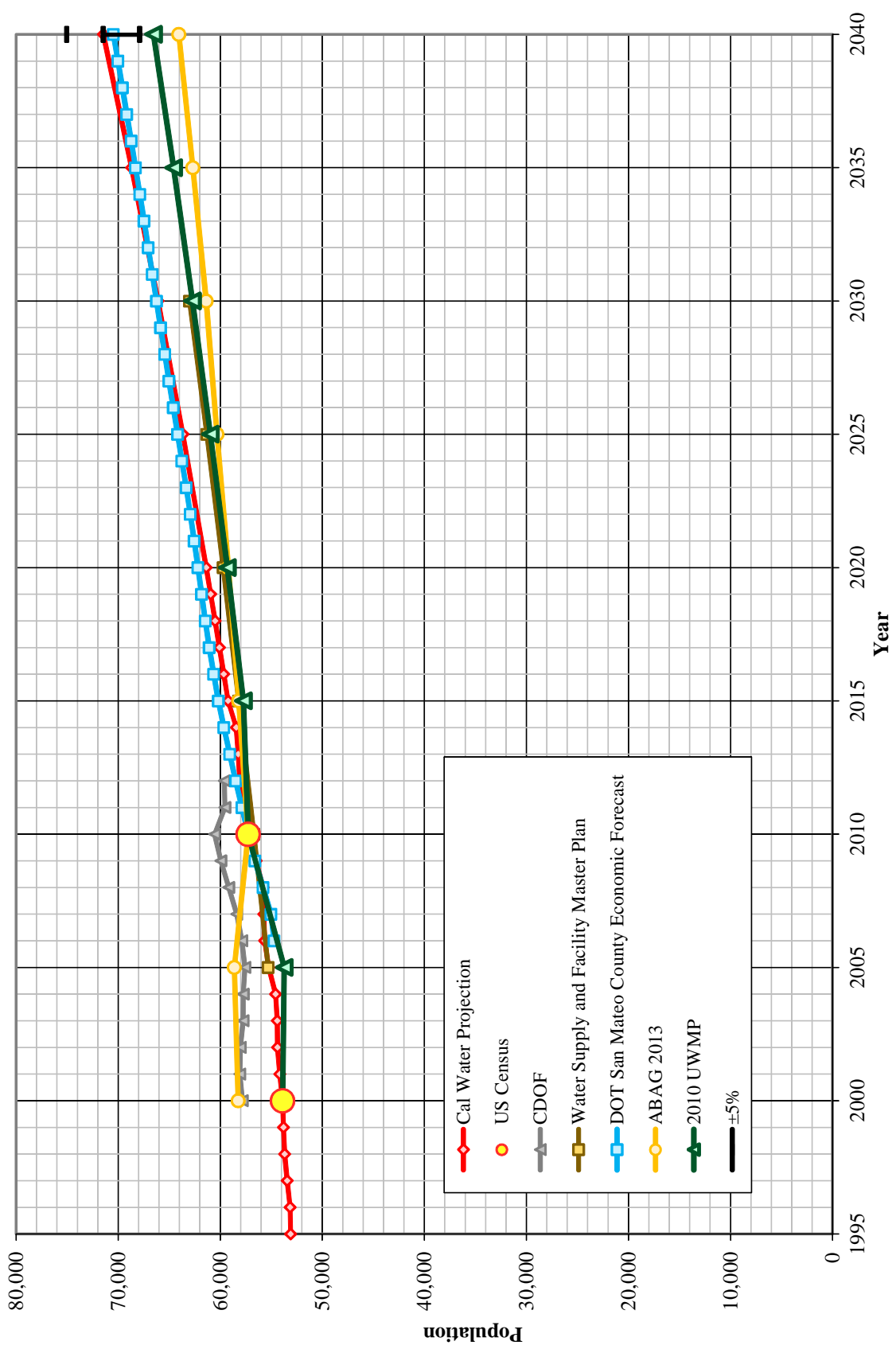
System	US Census 2000 Summary			US Census 2010 Summary			2000-2010 Change			
	Census Blocks	Housing Units (HU)	Density	Census Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
Bear Gulch				698	55,736	21,956	2.54			
Woodside				3	183	85	2.15			
Skyline				45	1,335	579	2.31			
Bear Gulch	1,130	53,885	2.70	746	57,254	22,620	2.53	106.3%	113.3%	93.7%

MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Bear Gulch District Water Supply and Demand Analysis and Projections Population Estimate

Year	US Census		Persons per Housing Unit	Single Family Residential		Multi Family Residential		Flat Rate Residential Services (DU)
	Population	Housing Units		Residential Services (DU)	Residential Units (DU)	Services	Units (DU)	
2000	53,885	19,956	2.700	15,816	64	4,140	64.7	0
2010	57,254	22,620	2.531	16,781	75	5,839	77.4	0
	6.3%	13.3%	-6.3%	6.1%	17.8%	41.0%	19.7%	0.0%

Year	Single Family Residential Services (DU)		Multi Family Residential		Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
	Residential Services (DU)	Services	Residential Units (DU)	Unit Density				
1995	15,532	64	4,135	64.7	0	19,667	2.700	53,104
1996	15,543	64	4,140	64.7	0	19,683	2.700	53,149
1997	15,650	64	4,140	64.7	0	19,790	2.700	53,437
1998	15,743	64	4,140	64.7	0	19,884	2.700	53,690
1999	15,785	64	4,140	64.7	0	19,925	2.700	53,802
2000	15,816	64	4,140	64.7	0	19,956	2.700	53,885
2001	15,875	64	4,310	67.3	0	20,185	2.683	54,162
2002	15,919	64	4,480	70.0	0	20,399	2.666	54,392
2003	15,890	64	4,650	72.7	0	20,540	2.649	54,421
2004	15,910	64	4,820	75.3	0	20,730	2.633	54,574
2005	16,134	63	4,990	78.7	0	21,124	2.616	55,252
2006	16,255	63	5,160	82.1	0	21,415	2.599	55,651
2007	16,260	63	5,330	84.8	0	21,590	2.582	55,741
2008	16,252	70	5,499	78.3	0	21,751	2.565	55,791
2009	16,498	76	5,669	75.0	0	22,168	2.548	56,484
2010	16,781	75	5,839	77.4	0	22,620	2.531	57,254
2011	16,857	83	6,009	72.3	0	22,866	2.531	57,876
2012	16,884	84	6,069	72.3	0	22,954	2.531	58,098
2013	16,887	85	6,124	72.3	0	23,010	2.531	58,242
2014	16,944	85	6,142	72.3	0	23,085	2.531	58,432
2015	16,972	89	6,430	72.3	0	23,402	2.531	59,233
2016	17,026	90	6,541	72.3	0	23,567	2.531	59,651
2017	17,081	92	6,653	72.3	0	23,734	2.531	60,074
2018	17,135	94	6,768	72.3	0	23,903	2.531	60,502
2019	17,190	95	6,884	72.3	0	24,074	2.531	60,935
2020	17,245	97	7,002	72.3	0	24,248	2.531	61,374
2025	17,523	105	7,626	72.3	0	25,149	2.531	63,654
2030	17,805	115	8,304	72.3	0	26,110	2.531	66,087
2035	18,092	125	9,044	72.3	0	27,135	2.531	68,683
2040	18,383	136	9,849	72.3	0	28,232	2.531	71,458

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

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 |
 |
 ACTUAL
 PROJECTED
 |
 V

Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, August 20, 2015 9:48 AM
To: 'John Maltbie (jmaltbie@smcgov.org)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Smithson, Dawn; Carrasco, Anthony
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Bear Gulch District
Attachments: Letter to City Planning Officials - Attachmet - BG.pdf

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If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

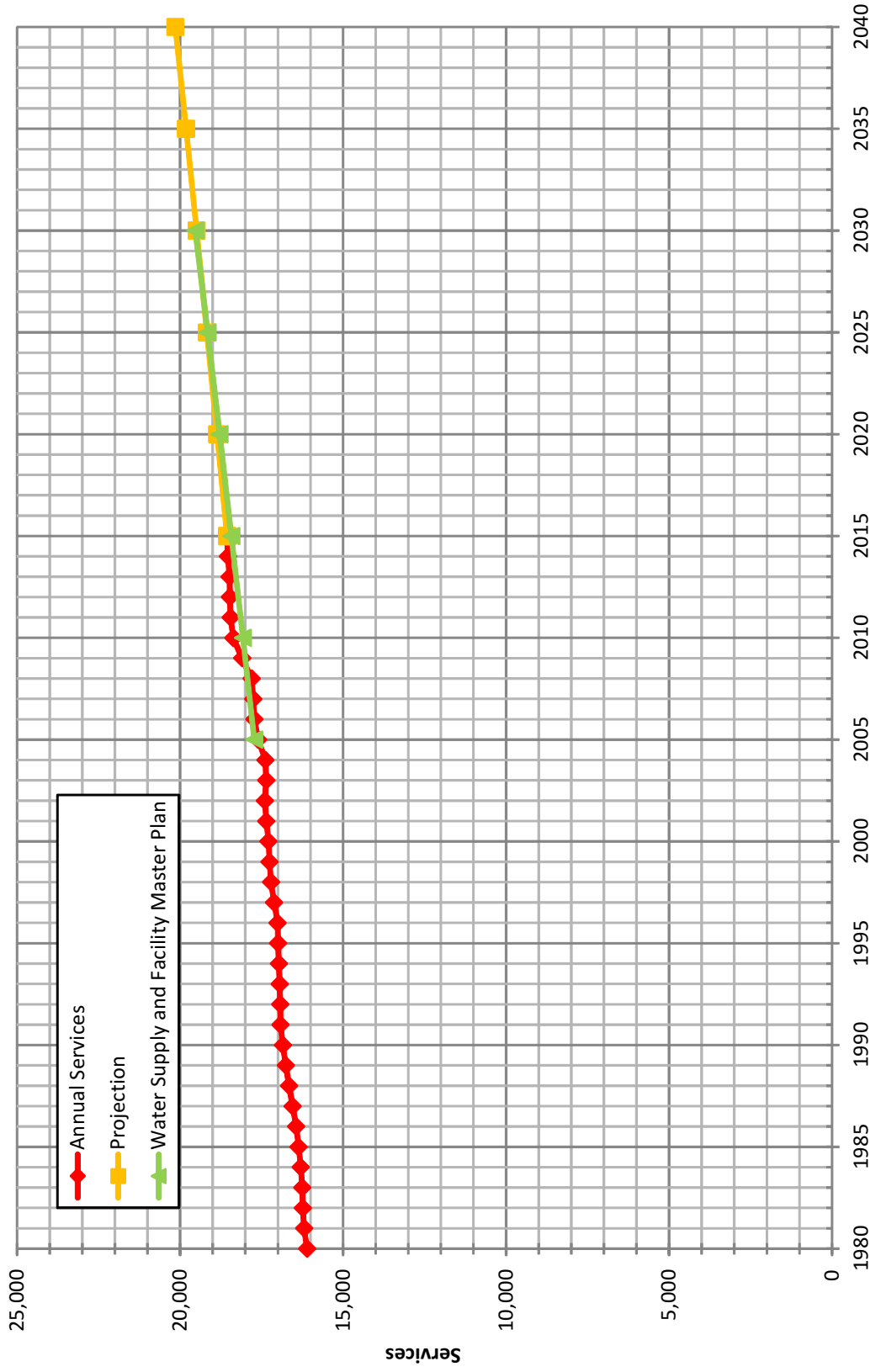
Danilo Blanusa, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE

408-367-8387



Quality. Service. Value.
calwater.com

Historical & Projected Services



California Water Service Company - Bear Gulch District

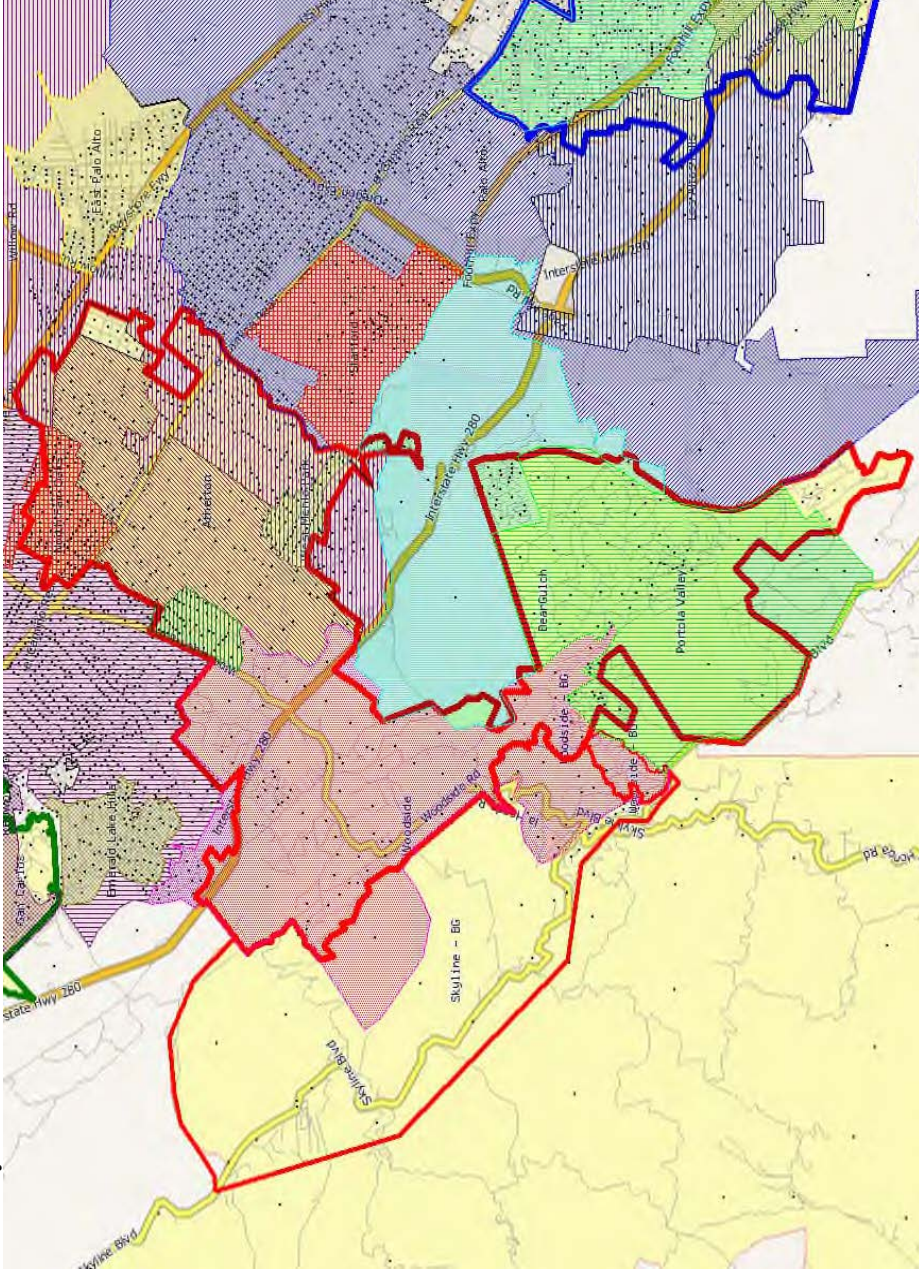
Water Supply and Demand Analysis and Projections

Actual & Projected Annual Average Services

Customer Category	Selected Trend	Growth Rate	Actual Services					Projected Services						
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MFR	MFR_B 5 Yr. Avg.	1.72%	64	63	75	89	89	97	105	115	125	136		
COM	COM_D 15 Yr. Avg.	0.36%	1,276	1,284	1,365	1,346	1,346	1,371	1,396	1,422	1,448	1,474		
IND	IND_A Zero Growth Rate	0.00%	1	1	1	1	1	1	1	1	1	1		
GOV	GOV_C 10 Yr. Avg.	0.13%	96	95	116	119	119	120	120	121	122	123		
OTH	OTH_A Zero Growth Rate	0.00%	34	30	24	20	20	20	20	20	20	20		
IRR	IRR_A Zero Growth Rate	0.00%	0	0	7	8	8	8	8	8	8	8		
TOTAL	Average growth rate 2011-2040	0.33%	17,288	17,607	18,369	18,555	18,555	18,861	19,174	19,492	19,815	20,145		

Notes:

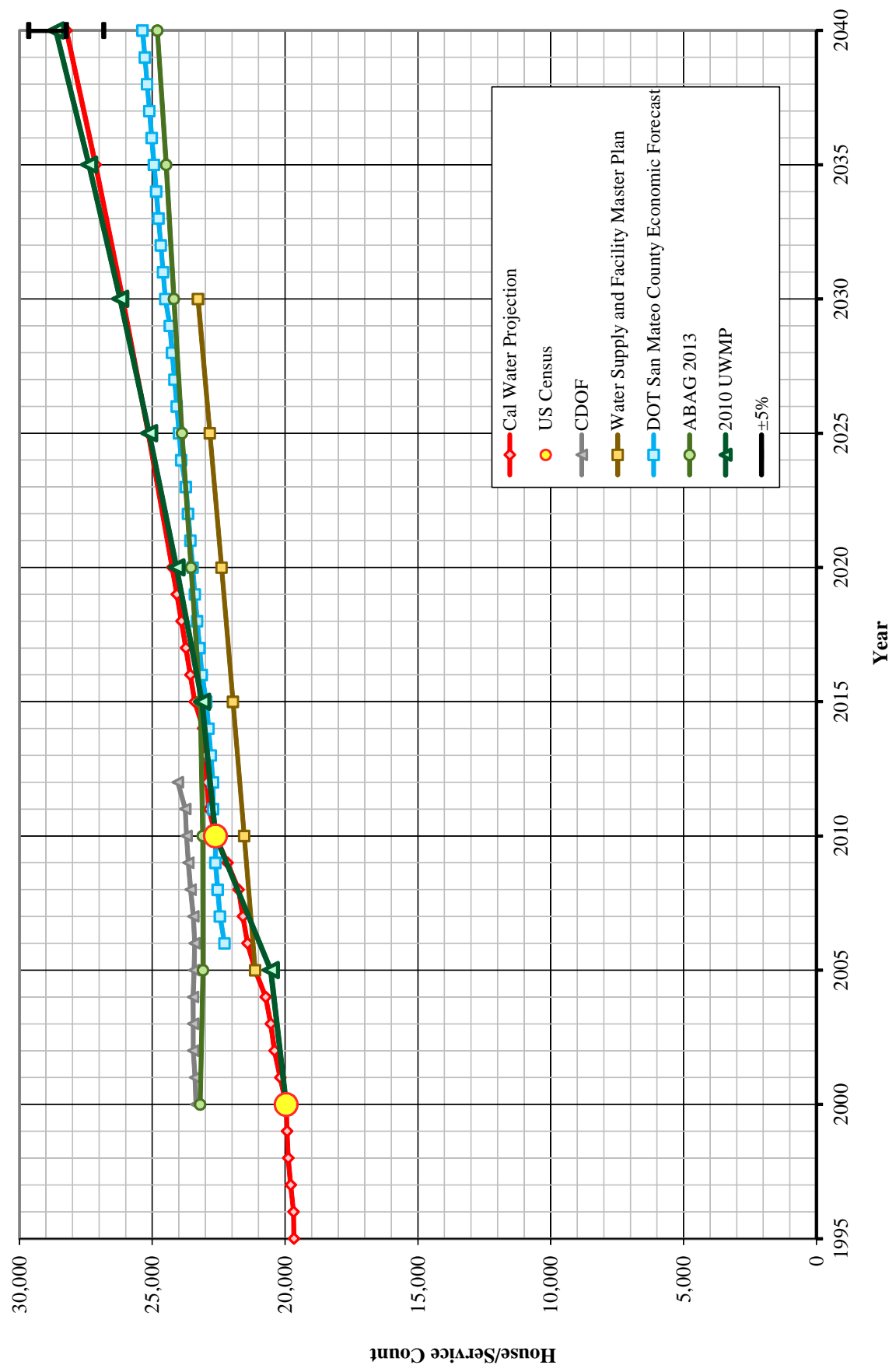
**California Water Service Company - Bear Gulch District
Water Supply and Demand Analysis and Projections
Marplot Summary**



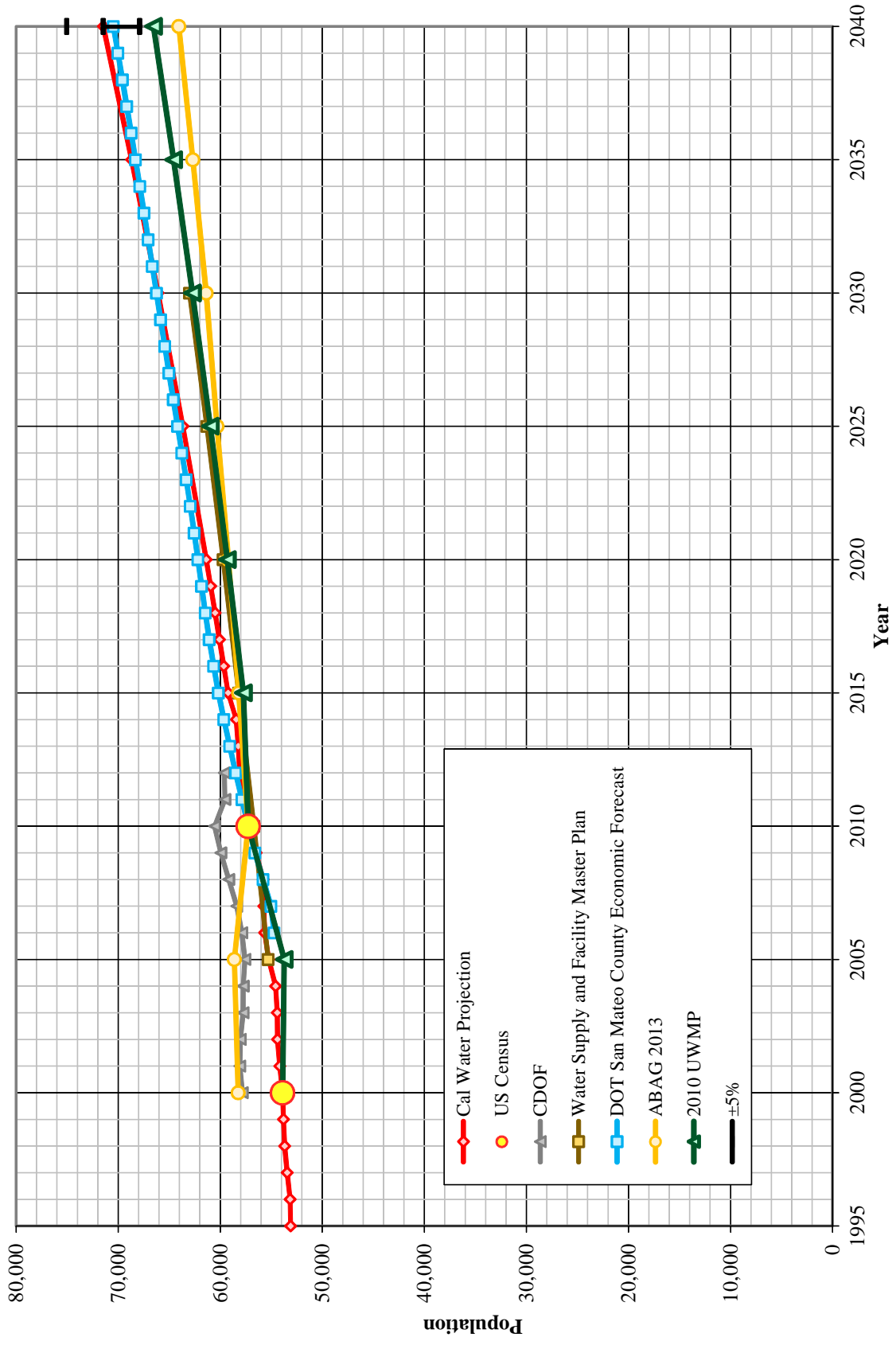
System	US Census 2000 Summary			US Census 2010 Summary			2000-2010 Change			
	Census Blocks	Housing Units (HU)	Density	Census Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
Bear Gulch				698	55,736	21,956	2.54			
Woodside				3	183	85	2.15			
Skyline				45	1,335	579	2.31			
Bear Gulch	1,130	53,885	2.70	746	57,254	22,620	2.53	106.3%	113.3%	93.7%

MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Bear Gulch District Water Supply and Demand Analysis and Projections Population Estimate

Year	US Census		Persons per Housing Unit	Single Family Residential		Multi Family Residential			Flat Rate Residential Services (DU)
	Population	Housing Units		Residential Services (DU)	Services	Residential Units (DU)	Density	Unit	
2000	53,885	19,956	2.700	15,816	64	4,135	64.7	4,140	64.7
2010	57,254	22,620	2.531	16,781	75	4,140	64.7	5,839	77.4
	6.3%	13.3%	-6.3%	6.1%	17.8%			41.0%	19.7%
									0.0%

Year	Single Family Residential Services (DU)		Multi Family Residential		Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
	Residential	Services	Residential Units (DU)	Unit Density				
1995	15,532	64	4,135	64.7	0	19,667	2.700	53,104
1996	15,543	64	4,140	64.7	0	19,683	2.700	53,149
1997	15,650	64	4,140	64.7	0	19,790	2.700	53,437
1998	15,743	64	4,140	64.7	0	19,884	2.700	53,690
1999	15,785	64	4,140	64.7	0	19,925	2.700	53,802
2000	15,816	64	4,140	64.7	0	19,956	2.700	53,885
2001	15,875	64	4,310	67.3	0	20,185	2.683	54,162
2002	15,919	64	4,480	70.0	0	20,399	2.666	54,392
2003	15,890	64	4,650	72.7	0	20,540	2.649	54,421
2004	15,910	64	4,820	75.3	0	20,730	2.633	54,574
2005	16,134	63	4,990	78.7	0	21,124	2.616	55,252
2006	16,255	63	5,160	82.1	0	21,415	2.599	55,651
2007	16,260	63	5,330	84.8	0	21,590	2.582	55,741
2008	16,252	70	5,499	78.3	0	21,751	2.565	55,791
2009	16,498	76	5,669	75.0	0	22,168	2.548	56,484
2010	16,781	75	5,839	77.4	0	22,620	2.531	57,254
2011	16,857	83	6,009	72.3	0	22,866	2.531	57,876
2012	16,884	84	6,069	72.3	0	22,954	2.531	58,098
2013	16,887	85	6,124	72.3	0	23,010	2.531	58,242
2014	16,944	85	6,142	72.3	0	23,085	2.531	58,432
2015	16,972	89	6,430	72.3	0	23,402	2.531	59,233
2016	17,026	90	6,541	72.3	0	23,567	2.531	59,651
2017	17,081	92	6,653	72.3	0	23,734	2.531	60,074
2018	17,135	94	6,768	72.3	0	23,903	2.531	60,502
2019	17,190	95	6,884	72.3	0	24,074	2.531	60,935
2020	17,245	97	7,002	72.3	0	24,248	2.531	61,374
2025	17,523	105	7,626	72.3	0	25,149	2.531	63,654
2030	17,805	115	8,304	72.3	0	26,110	2.531	66,087
2035	18,092	125	9,044	72.3	0	27,135	2.531	68,683
2040	18,383	136	9,849	72.3	0	28,232	2.531	71,458

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

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Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, August 20, 2015 9:52 AM
To: 'Howard Young (hyoung@portolavalley.net)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Smithson, Dawn; Carrasco, Anthony
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Bear Gulch District
Attachments: Letter to City Planning Officials - Attachmet - BG.pdf

Tracking:	Recipient	Delivery
	'Howard Young (hyoung@portolavalley.net)'	
	Salzano, Tom	Delivered: 8/20/2015 9:52 AM
	Bolzowski, Michael R.	Delivered: 8/20/2015 9:52 AM
	Keck, Jonathan	Delivered: 8/20/2015 9:52 AM
	Smithson, Dawn	Delivered: 8/20/2015 9:52 AM
	Carrasco, Anthony	Delivered: 8/20/2015 9:52 AM

Dear Mr. Young,

Pursuant to California Water Code, Division 6, Part 2.6, Sections 10610 through 10656, California Water Service is in the process of preparing the required 2015 update of our Urban Water Management Plans. These plans are required to be updated every five (5) years for each of our services areas (Districts). As you know our Bear Gulch District provides water service to the Town of Portola Valley.

The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

- Single family residential
- Multi-family residential
- Commercial
- Industrial
- Government (City or County parks, median strips, landscaping and schools)
- Dedicated Irrigation (rare)
- Other (temporary construction meters)

The forecasted growth rates are combined with a demand per service factor applicable to each customer class to determine the future water demands for the district. These growth factors are adjustable and we want to review them with you so that we are consistent with anticipated growth that your planning efforts forecast. If adjustments are necessary we can do them now and avoid conflicts and confusion later in this process.

Some specific information regarding our approach to forecasting customer service growth is detailed as follows:

- **Residential** – Typically two residential customer service categories represent the vast majority of the service counts as well as subsequent water sales or demand in our districts. Cal Water considers both single family and multi-family residential services independently as individual classes, but combines them together in order to assess population growth and housing unit growth. While we use historical trends in the establishment for the growth rates for these two customer classes, we also analyze census data for population and housing factors and compare our forecast results for these two parameters with

available data from City General Plans, as well as County Economic Forecast data and Regional government association forecasts as a reality or appropriateness check of our results.

- **Commercial & Industrial** – Historical trend is a key influence in this customer class, however where we have seen negative trends in recent years for these categories due to the economic downturn, we typically employ either a zero rate of growth or a small, reasonable positive rate of growth. We have also undertaken during the last ten years some reassessment of customer service classifications that has resulted in reallocation of some customer service accounts between various classes. This reallocation, which included commercial, industrial, multi-family residential and in some cases government services, has made the analysis of growth a bit more difficult.
- **Government** – Growth trends are generally parallel to that of the residential sector, so we verify that our rate of grow is not dramatically out-of-sequence with the overall community.
- **Other** – The use of temporary-assigned construction meters varies considerably from year to year, and can represent considerable water demand. In this case, we select a growth rate that is stable, yet reflects the overall growth of the community.

We have included with this communication a set of tables and graphs (see attachment) that illustrate the parameters that influence the growth forecast as currently set up for this district. These include:

- A. The historical and projected service data in both graph and table form
- B. The 2000 and 2010 Census data for the districts service area
- C. Housing projection chart comparing Cal Water’s forecast (always in red) with those from other organizations
- D. Population projection chart comparing Cal Water’s forecast (always in red) with those from other organizations
- E. Table of population and housing values along with multi-family residential unit density and persons per housing unit density that are employed in this forecast effort.

Please note that the 2015 data, which we need to include in our finished forecast, is not yet final, and some minor fluctuation of these values is possible.

Please examine these documents to determine if you concur with our forecasted housing and population numbers. It would be greatly appreciated if you could, by **September 11, 2015**, provide us with an indication of your support or in the case you do not agree with our forecast a reason why and the appropriate rate or growth pattern that we should employ. **If I do not hear back from you by the end of business (EOB) on the above date I will assume that you concur with our forecast.**

If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

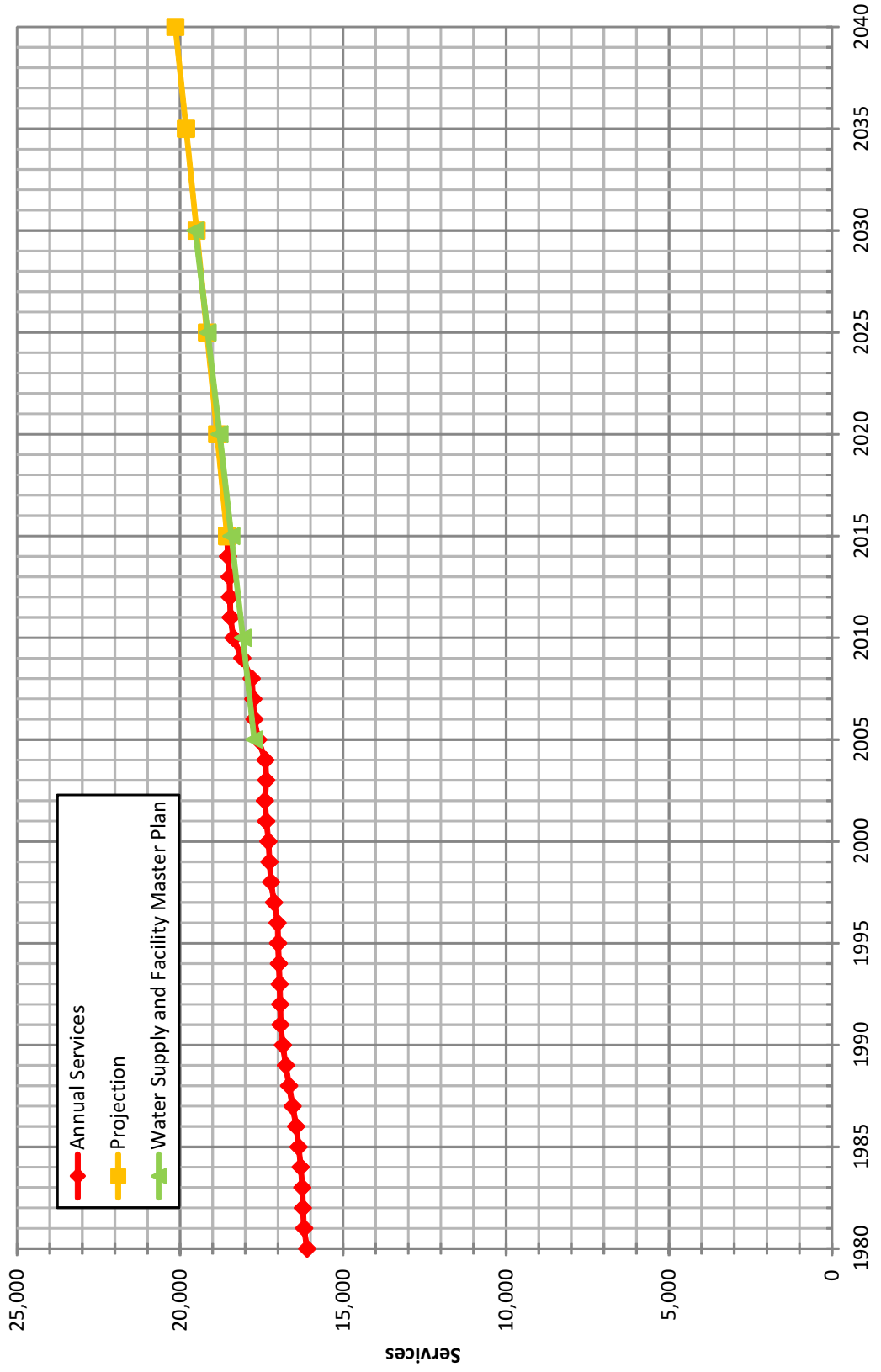
Danilo Blanusa, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE

408-367-8387



Quality. Service. Value.
calwater.com

Historical & Projected Services



California Water Service Company - Bear Gulch District

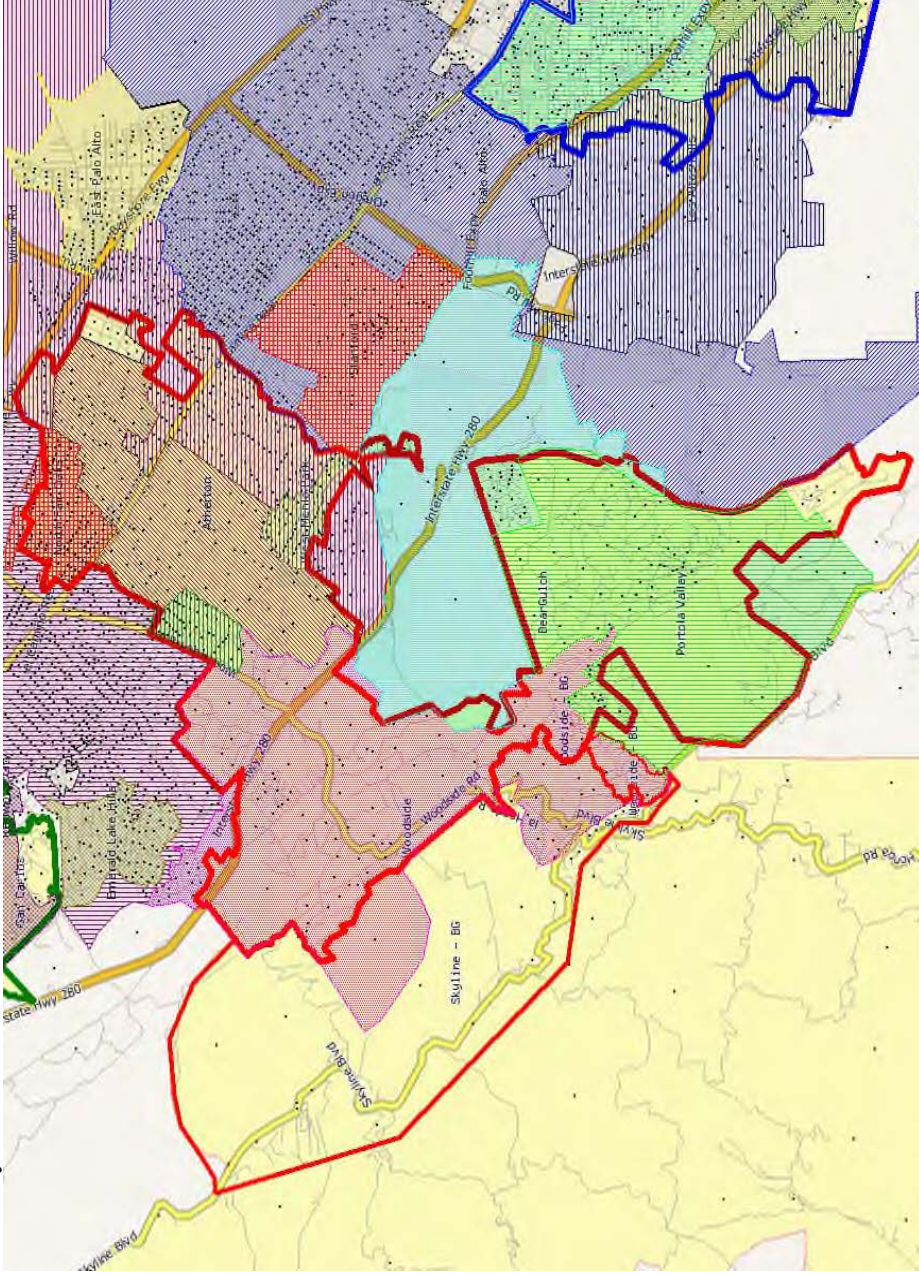
Water Supply and Demand Analysis and Projections

Actual & Projected Annual Average Services

Customer Category	Selected Trend	Growth Rate	Actual Services					Projected Services						
			2000	2005	2010	2015	2015	2015	2020	2025	2030	2035	2040	
SFR	SFR_B 5 Yr. Avg.	0.32%	15,816	16,134	16,781	16,972	16,972	16,972	17,245	17,523	17,805	18,092	18,383	
MFR	MFR_B 5 Yr. Avg.	1.72%	64	63	75	89	89	97	105	115	125	136		
COM	COM_D 15 Yr. Avg.	0.36%	1,276	1,284	1,365	1,346	1,346	1,371	1,396	1,422	1,448	1,474		
IND	IND_A Zero Growth Rate	0.00%	1	1	1	1	1	1	1	1	1	1		
GOV	GOV_C 10 Yr. Avg.	0.13%	96	95	116	119	119	120	120	121	122	123		
OTH	OTH_A Zero Growth Rate	0.00%	34	30	24	20	20	20	20	20	20	20		
IRR	IRR_A Zero Growth Rate	0.00%	0	0	7	8	8	8	8	8	8	8		
TOTAL	Average growth rate 2011-2040	0.33%	17,288	17,607	18,369	18,555	18,555	18,861	19,174	19,492	19,815	20,145		

Notes:

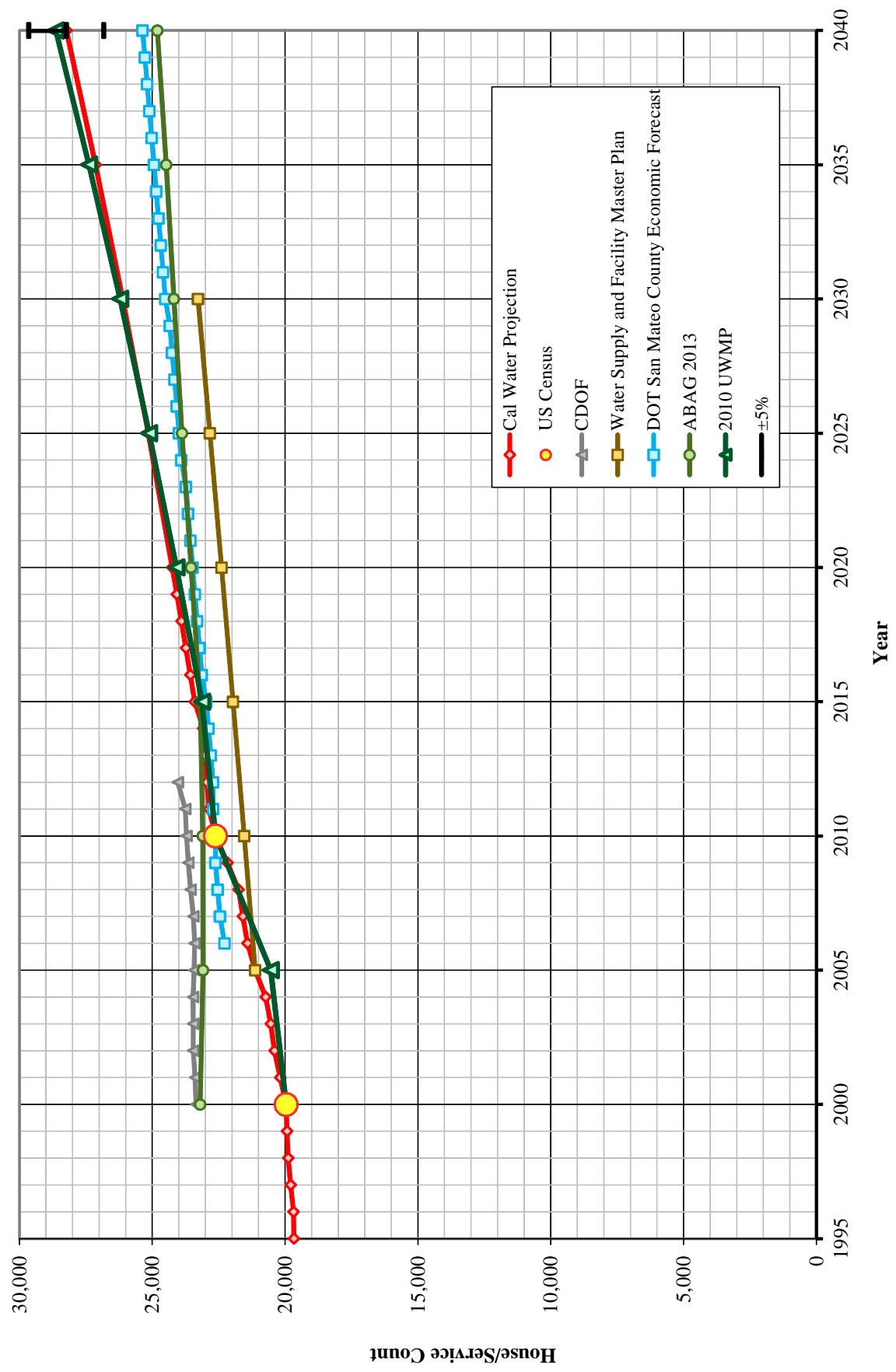
California Water Service Company - Bear Gulch District Water Supply and Demand Analysis and Projections Marplot Summary



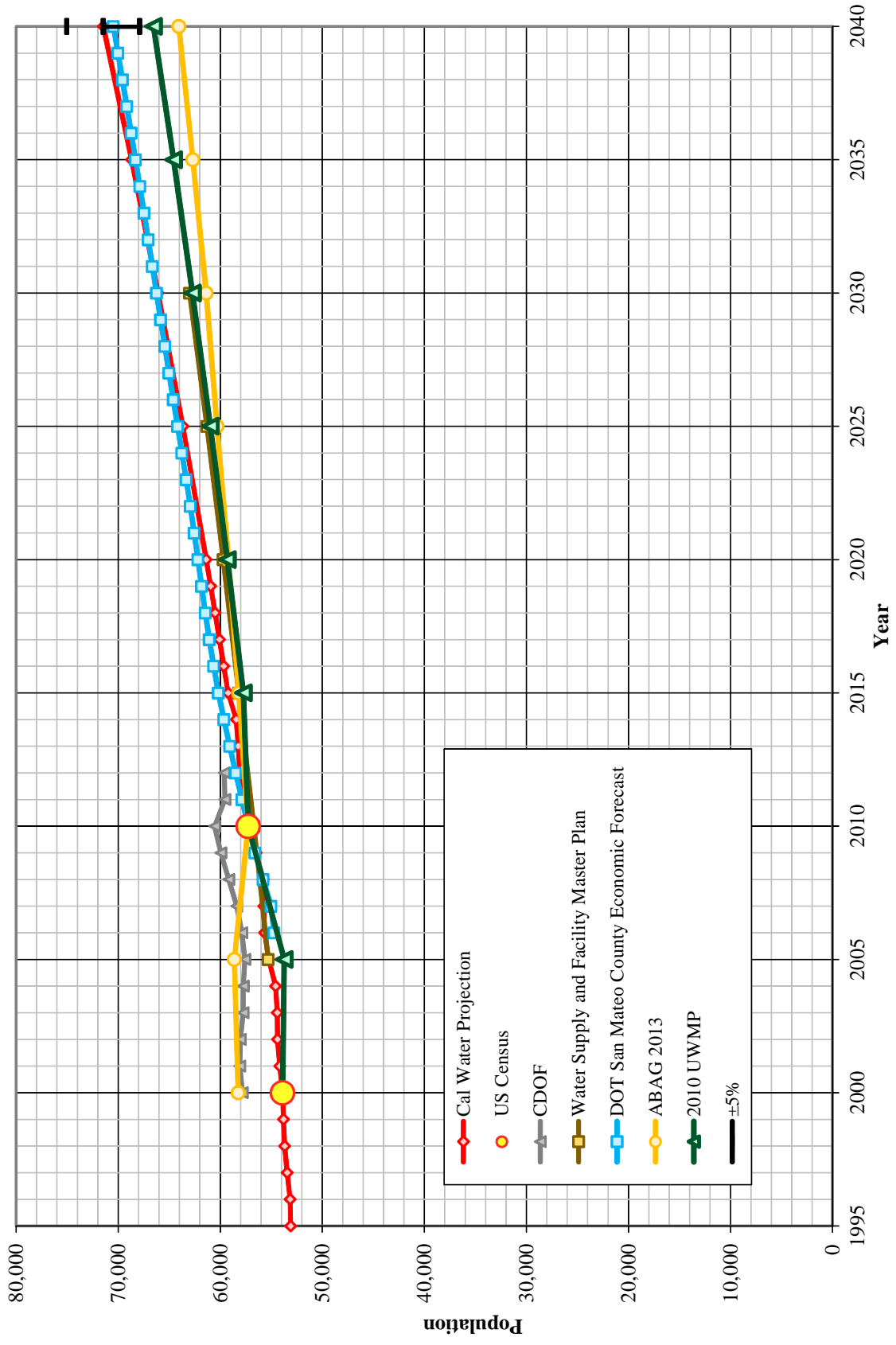
System	US Census 2000 Summary			US Census 2010 Summary			2000-2010 Change			
	Census Blocks	Housing Units (HU)	Density	Census Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
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Bear Gulch	1,130	53,885	2.70	746	57,254	22,620	2.53	106.3%	113.3%	93.7%

MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Bear Gulch District Water Supply and Demand Analysis and Projections Population Estimate

Year	US Census		Persons per Housing Unit	Single Family Residential		Multi Family Residential		Flat Rate Residential Services (DU)
	Population	Housing Units		Residential Services (DU)	Residential Units (DU)	Services	Units (DU)	
2000	53,885	19,956	2.700	15,816	64	4,140	64.7	0
2010	57,254	22,620	2.531	16,781	75	5,839	77.4	0
	6.3%	13.3%	-6.3%	6.1%	17.8%	41.0%	19.7%	0.0%

Year	Single Family Residential Services (DU)		Multi Family Residential		Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
	Residential Services (DU)	Services	Residential Units (DU)	Unit Density				
1995	15,532	64	4,135	64.7	0	19,667	2.700	53,104
1996	15,543	64	4,140	64.7	0	19,683	2.700	53,149
1997	15,650	64	4,140	64.7	0	19,790	2.700	53,437
1998	15,743	64	4,140	64.7	0	19,884	2.700	53,690
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2010	16,781	75	5,839	77.4	0	22,620	2.531	57,254
2011	16,857	83	6,009	72.3	0	22,866	2.531	57,876
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2017	17,081	92	6,653	72.3	0	23,734	2.531	60,074
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2020	17,245	97	7,002	72.3	0	24,248	2.531	61,374
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Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

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Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, August 20, 2015 9:56 AM
To: 'Paul Nagengast (pnagengast@woodsidetown.org)'
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Smithson, Dawn; Carrasco, Anthony
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Bear Gulch District
Attachments: Letter to City Planning Officials - Attachmet - BG.pdf

Tracking:	Recipient	Delivery
	'Paul Nagengast (pnagengast@woodsidetown.org)'	
	Salzano, Tom	Delivered: 8/20/2015 9:56 AM
	Bolzowski, Michael R.	Delivered: 8/20/2015 9:56 AM
	Keck, Jonathan	Delivered: 8/20/2015 9:56 AM
	Smithson, Dawn	Delivered: 8/20/2015 9:56 AM
	Carrasco, Anthony	Delivered: 8/20/2015 9:56 AM

Dear Mr. Nagengast,

Pursuant to California Water Code, Division 6, Part 2.6, Sections 10610 through 10656, California Water Service is in the process of preparing the required 2015 update of our Urban Water Management Plans. These plans are required to be updated every five (5) years for each of our services areas (Districts). As you know our Bear Gulch District provides water service to the Town of Woodside.

The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

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- Multi-family residential
- Commercial
- Industrial
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available data from City General Plans, as well as County Economic Forecast data and Regional government association forecasts as a reality or appropriateness check of our results.

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Please examine these documents to determine if you concur with our forecasted housing and population numbers. It would be greatly appreciated if you could, by **September 11, 2015**, provide us with an indication of your support or in the case you do not agree with our forecast a reason why and the appropriate rate or growth pattern that we should employ. **If I do not hear back from you by the end of business (EOB) on the above date I will assume that you concur with our forecast.**

If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

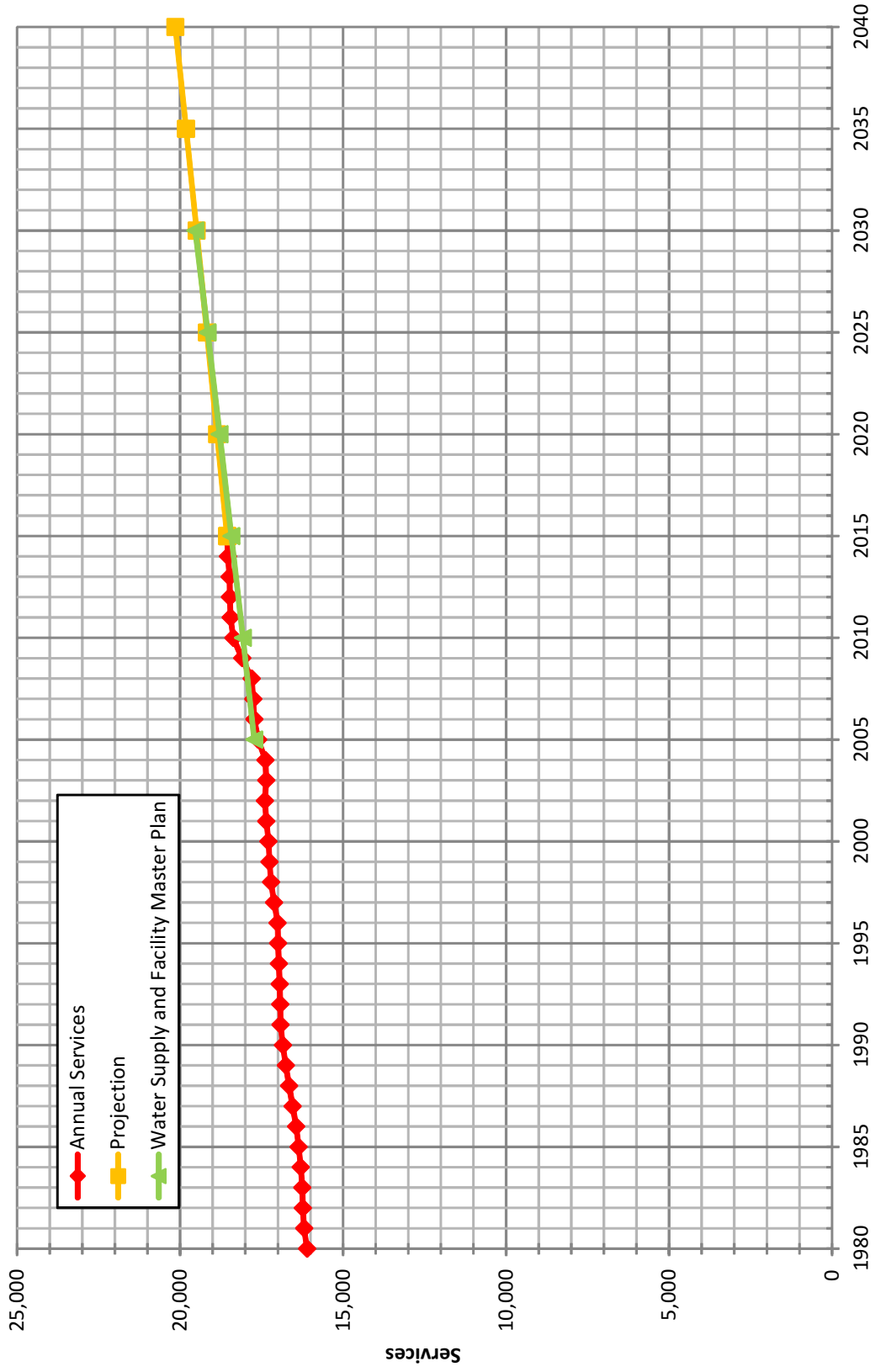
Danilo Blanusa, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE

408-367-8387



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Historical & Projected Services



California Water Service Company - Bear Gulch District

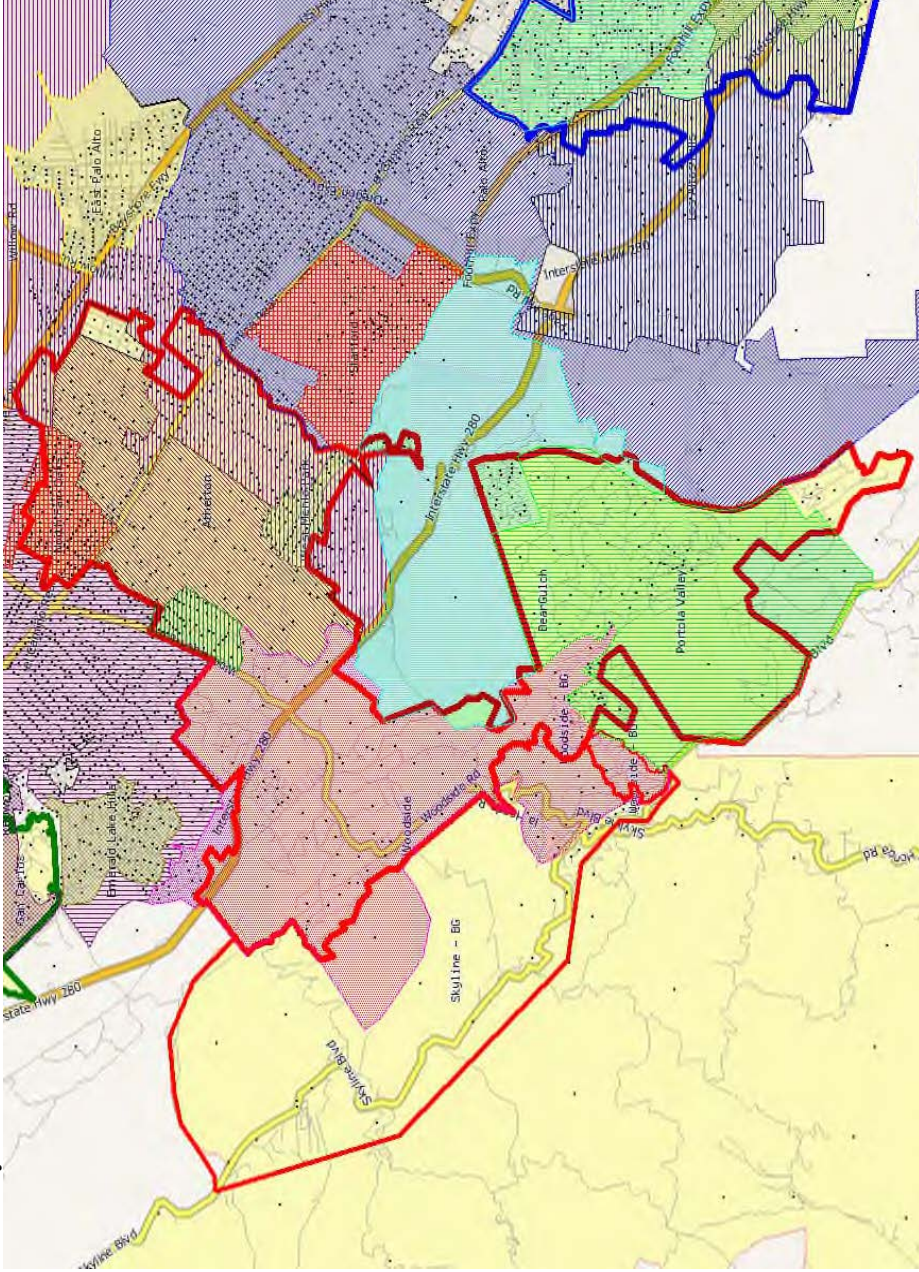
Water Supply and Demand Analysis and Projections

Actual & Projected Annual Average Services

Customer Category	Selected Trend	Growth Rate	Actual Services					Projected Services						
			2000	2005	2010	2015	2015	2015	2020	2025	2030	2035	2040	
SFR	SFR_B 5 Yr. Avg.	0.32%	15,816	16,134	16,781	16,972	16,972	16,972	17,245	17,523	17,805	18,092	18,383	
MFR	MFR_B 5 Yr. Avg.	1.72%	64	63	75	89	89	97	105	115	125	136		
COM	COM_D 15 Yr. Avg.	0.36%	1,276	1,284	1,365	1,346	1,346	1,371	1,396	1,422	1,448	1,474		
IND	IND_A Zero Growth Rate	0.00%	1	1	1	1	1	1	1	1	1	1		
GOV	GOV_C 10 Yr. Avg.	0.13%	96	95	116	119	119	120	120	121	122	123		
OTH	OTH_A Zero Growth Rate	0.00%	34	30	24	20	20	20	20	20	20	20		
IRR	IRR_A Zero Growth Rate	0.00%	0	0	7	8	8	8	8	8	8	8		
TOTAL	Average growth rate 2011-2040	0.33%	17,288	17,607	18,369	18,555	18,555	18,861	19,174	19,492	19,815	20,145		

Notes:

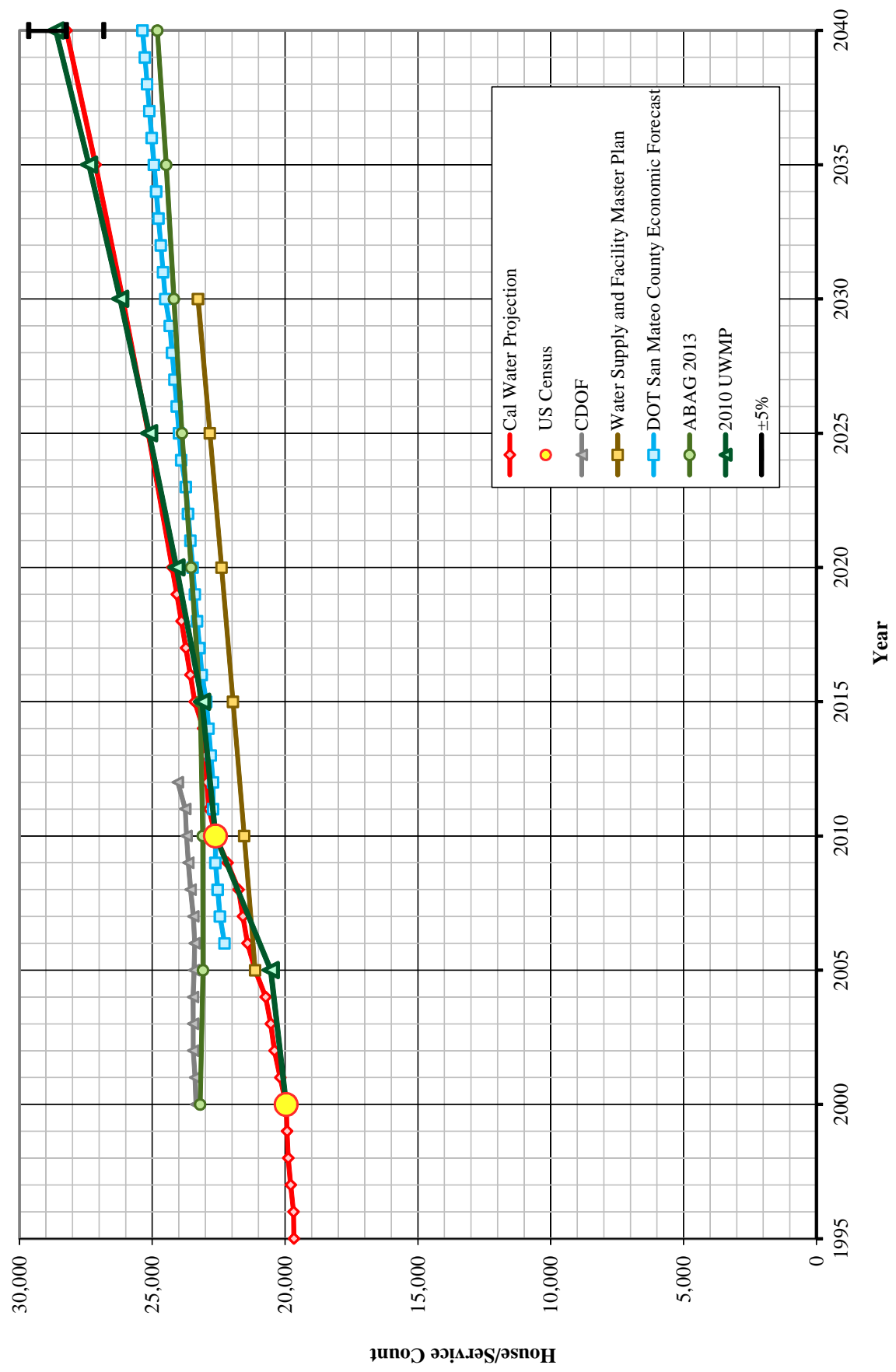
California Water Service Company - Bear Gulch District Water Supply and Demand Analysis and Projections Marplot Summary



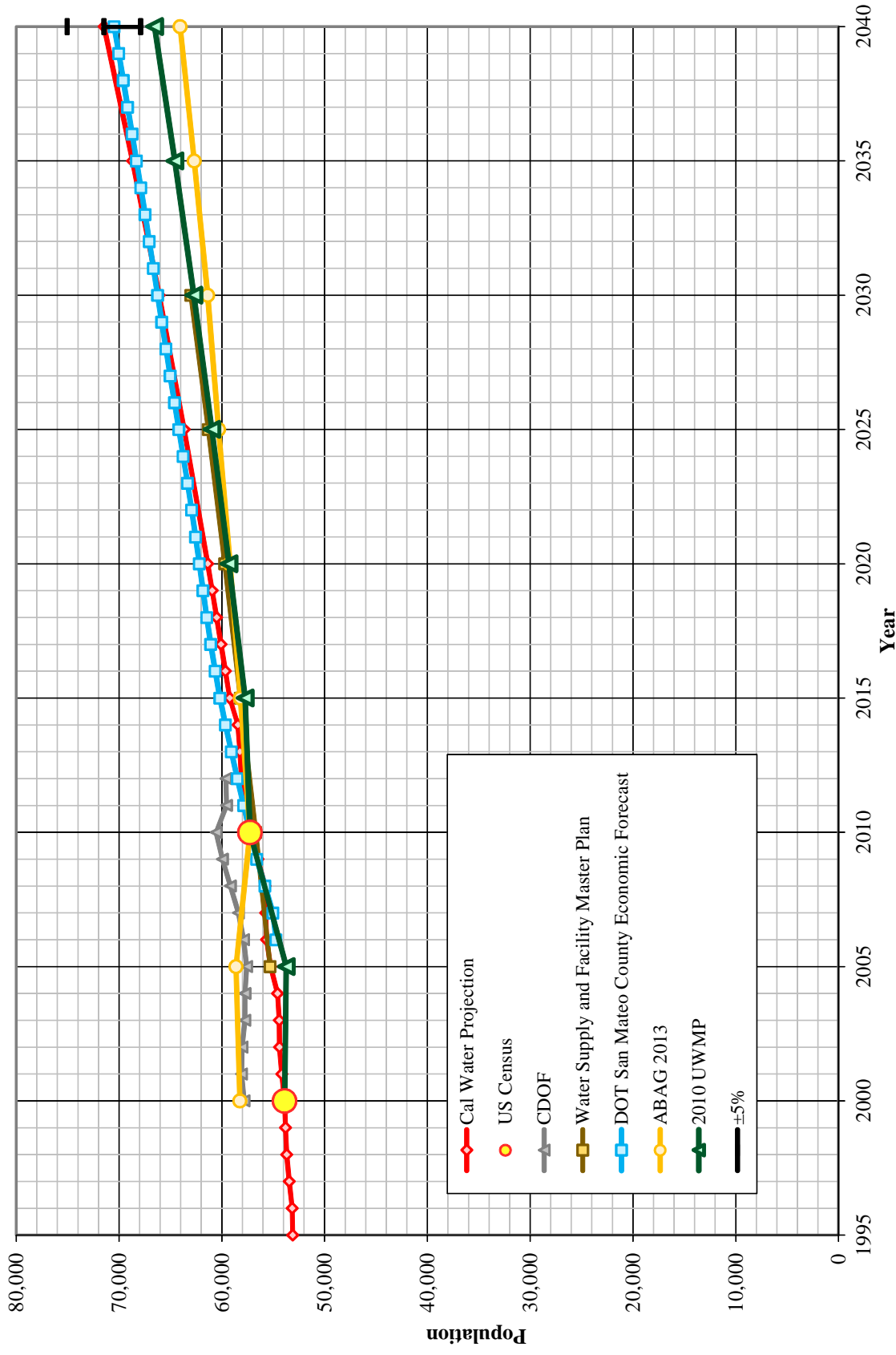
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	Census Blocks	Housing Units (HU)	Density	Census Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
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Bear Gulch	1,130	53,885	2.70	746	57,254	22,620	2.53	106.3%	113.3%	93.7%

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Housing Projections



Population Projections



California Water Service Company - Bear Gulch District Water Supply and Demand Analysis and Projections Population Estimate

Year	US Census		Persons per Housing Unit	Single Family Residential		Multi Family Residential		Flat Rate Residential Services (DU)
	Population	Housing Units		Residential Services (DU)	Residential Units (DU)	Services	Units (DU)	
2000	53,885	19,956	2.700	15,816	64	4,140	64.7	0
2010	57,254	22,620	2.531	16,781	75	5,839	77.4	0
	6.3%	13.3%	-6.3%	6.1%	17.8%	41.0%	19.7%	0.0%

Year	Single Family Residential Services (DU)		Multi Family Residential		Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
	Residential Services (DU)	Services	Residential Units (DU)	Unit Density				
1995	15,532	64	4,135	64.7	0	19,667	2.700	53,104
1996	15,543	64	4,140	64.7	0	19,683	2.700	53,149
1997	15,650	64	4,140	64.7	0	19,790	2.700	53,437
1998	15,743	64	4,140	64.7	0	19,884	2.700	53,690
1999	15,785	64	4,140	64.7	0	19,925	2.700	53,802
2000	15,816	64	4,140	64.7	0	19,956	2.700	53,885
2001	15,875	64	4,310	67.3	0	20,185	2.683	54,162
2002	15,919	64	4,480	70.0	0	20,399	2.666	54,392
2003	15,890	64	4,650	72.7	0	20,540	2.649	54,421
2004	15,910	64	4,820	75.3	0	20,730	2.633	54,574
2005	16,134	63	4,990	78.7	0	21,124	2.616	55,252
2006	16,255	63	5,160	82.1	0	21,415	2.599	55,651
2007	16,260	63	5,330	84.8	0	21,590	2.582	55,741
2008	16,252	70	5,499	78.3	0	21,751	2.565	55,791
2009	16,498	76	5,669	75.0	0	22,168	2.548	56,484
2010	16,781	75	5,839	77.4	0	22,620	2.531	57,254
2011	16,857	83	6,009	72.3	0	22,866	2.531	57,876
2012	16,884	84	6,069	72.3	0	22,954	2.531	58,098
2013	16,887	85	6,124	72.3	0	23,010	2.531	58,242
2014	16,944	85	6,142	72.3	0	23,085	2.531	58,432
2015	16,972	89	6,430	72.3	0	23,402	2.531	59,233
2016	17,026	90	6,541	72.3	0	23,567	2.531	59,651
2017	17,081	92	6,653	72.3	0	23,734	2.531	60,074
2018	17,135	94	6,768	72.3	0	23,903	2.531	60,502
2019	17,190	95	6,884	72.3	0	24,074	2.531	60,935
2020	17,245	97	7,002	72.3	0	24,248	2.531	61,374
2025	17,523	105	7,626	72.3	0	25,149	2.531	63,654
2030	17,805	115	8,304	72.3	0	26,110	2.531	66,087
2035	18,092	125	9,044	72.3	0	27,135	2.531	68,683
2040	18,383	136	9,849	72.3	0	28,232	2.531	71,458

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

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 ACTUAL
 PROJECTED
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Appendix C: Correspondences

- UWMP Public Draft Comments

Note: There were no comments received for the UWMP Public Draft.
