

## **Appendix H: Public Services Letters**



Michael Brandman Associates

ENVIRONMENTAL SERVICES • PLANNING • NATURAL RESOURCES MANAGEMENT

May 17, 2007

Craig Bowen, Fire Chief  
San Ramon Valley Fire Protection District  
1500 Bollinger Canyon Road  
San Ramon, CA 94583

**Subject: San Ramon City Center - Environmental Impact Report**

Dear Chief Bowen:

Michael Brandman Associates has been retained by the City of San Ramon to prepare an Environmental Impact Report (EIR) for the proposed San Ramon City Center project. As part of the environmental review process, we are consulting with public service providers to determine potential project impacts on their ability to deliver services to the community. A Project Description and graphics are enclosed to provide you with an overview of the proposed project.

Enclosed with this letter is a questionnaire containing several questions concerning potential impacts on the San Ramon Valley Fire Protection District. We would appreciate it if you or one of your staff would complete the questionnaire on Fire District letterhead and return it to us by Friday, June 8, 2007. We acknowledge that the Fire District has been engaged in the City Center planning process, and the purpose of this inquiry is to “close the loop” in terms of ensuring that the EIR accurately and completely reflects the Fire District’s existing and future resources and its potential concerns about the project.

If you have any questions or concerns about this letter or project, please call me at (925) 830-2733.

Sincerely,

Grant Gruber, Assistant Project Manager  
**Michael Brandman Associates**  
Bishop Ranch 3  
2633 Camino Ramon, Suite 460  
San Ramon CA 94583

Enclosures: Questionnaire  
Project Description  
Context Plan  
Illustrative Site Plan  
Land Use Diagram

**Bakersfield**  
661.334.2755

**Fresno**  
559.497.0310

**Irvine**  
714.508.4100

**Palm Springs**  
760.322.8847

**Sacramento**  
916.383.0944

**San Bernardino**  
909.884.2255

**San Ramon**  
925.830.2733

**Santa Cruz**  
831.262.1731

[www.brandman.com](http://www.brandman.com)

[mba@brandman.com](mailto:mba@brandman.com)

**San Ramon Valley Fire Protection District Questionnaire**

- The narrative below has been compiled from information provided on the San Ramon Valley Fire Protection District website. Please confirm its accuracy. Where information is incorrect or incomplete, please provide the correct or additional information.

**Fire Protection and Emergency Medical Services**

The San Ramon Valley Fire Protection District (Fire District) provides fire protection and emergency medical services (EMS) to a 155-square-mile area encompassing the City of San Ramon, the Town of Danville, and the unincorporated communities of Alamo, Blackhawk, Diablo, Southern Morgan Territory, and Tassajara Valley. The Fire District is an autonomous special district governed by an elected Board of Directors. The Fire District is headquartered at 1500 Bollinger Canyon Road, San Ramon, adjacent to Station No. 38.

*Stations and Facilities*

The Fire District operates 10 fire stations, including four in San Ramon. The four San Ramon stations, along with apparatus and staffing, are summarized in Table 1. The Fire District has plans to relocate Station No. 36 from 6100 Tassajara Road to the corner of Camino Tassajara and Lusitano. Construction is scheduled to begin in September 2007 and the station is expected to open in Fall 2008.

**Table 1: Fire Station Summary**

Station No.	Address	Distance From Project Site	Apparatus		Staffing
			Quantity	Equipment	
34	12599 Alcosta Boulevard	0.7 mile	1	Type 1 Engines	Two Company station (6 personnel) cross staff equipment
			1	Ladder Truck	
			1	Type 3 Engine	
			1	Ambulance	
			1	Urban Search and Rescue Vehicle	

**Table 1 (Cont.): Fire Station Summary**

Station No.	Address	Distance From Project Site	Apparatus		Staffing
			Quantity	Equipment	
38	1600 Bollinger Canyon Road	2.7 miles	1	Type 1 Engine	One Company station (3 personnel) cross staff equipment
			1	Ambulance	
			1	Water Tender	
39	9399 Fircrest Lane	3.4 miles	1	Type 1 Engine	One Company station (5 personnel) cross staff equipment
			1	Ambulance	
			1	Type 3 Engine	
30	11445 Windemere Parkway	3.6 miles	1	Type 1 Engine	Single company station (3 personnel) cross staff equipment . Station is designed to accommodate two companies
			1	Type 3 Engine	

Source: San Ramon Valley Fire Protection District, 2007.

The City Center site will also be served by emergency personnel responding from Stations 31 and 35 in Danville. In addition, the Fire District operates its own Communications Center, located at Station 31 in Danville. The Communications Center is staffed with two dispatchers, one supervising dispatcher, and a mobile command post supported by 11 volunteers.

*Apparatus*

The Fire District's urban apparatus is summarized in Table 2.

**Table 2: Urban Apparatus Summary**

Apparatus	Quantity	Notes
Type 1 Engines	19	Equipped with Advanced Life Support emergency medical equipment (oxygen, defibrillator units, and medications)
Type 1 Ladder Trucks	3	Each truck equipped with a 100-foot ladder
Type 2 Ladder Truck	1	Truck equipped with a 55-foot ladder

**Table 2 (Cont.): Urban Apparatus Summary**

Apparatus	Quantity	Notes
Type 3 and Type 4 Engines	11	Type 3 Engines equipped with Advanced Life Support medical equipment; Assigned to Wildland Unit
Rescue Medic Ambulance Units	5	Equipped with Advanced Life Support medical equipment, Hurst tools, and rope rescue equipment
Reserve Ambulance Units	4	Can be placed into action immediately to cover maintenance needs or assist in large-scale incidents
Multi-Casualty Unit	1	Used for large-scale incidents
Breathing Support Unit	1	Used to fill high- and low-pressure air bottles; also equipped with large pop-up scene lights, salvage equipment, and medical supplies
Hazardous Materials Modular Response Vehicle	1	Equipped with hazardous material detection equipment and supplies and computer-linked to hazardous material information sources
Urban Search and Rescue Vehicle	1	Equipped with ropes, hardware and rescue baskets

Source: San Ramon Valley Fire Protection District, 2007.

*Staffing*

The Fire District employs 182 personnel, in addition to approximately 50 reserves. Of these, 148 personnel are assigned to the Suppression Division, which serves as the first responder to most calls for service. Suppression personnel include the following:

- 3 battalion chiefs

- 39 captains
- 42 engineers
- 55 firefighters (50 of whom are paramedics)
- 9 dispatchers

Paid personnel staff nine of the Fire District's 10 stations, with reserves staffing Station 37 in Southern Morgan Territory. Reserves also augment paid staffing at the other stations. All Suppression Division personnel, excluding dispatchers, are trained Emergency Medical Technicians 1As (EMT-1As) and State Certified Firefighter I and II with specialized defibrillator training. At least one member assigned to each company is a certified single provider Advanced Life Support Paramedic.

The Fire District currently staffs 13 companies on a daily basis and has plans to add an additional ALS Ambulance with two personnel in July of 2007. These personnel cross-staff nine engines, three trucks, five transport Advanced Life Support ambulances and the other specialized vehicles based upon the type of call.

### *Specialized Units*

#### Rescue Team

The Rescue Team consists of approximately 30 members. The Rescue Team is a proactive organization whose main purposes are to provide immediately available, high-quality technical rescue resources managed by skilled and dedicated personnel; and to provide Fire District-wide, rescue-related training. The team is based at Station 34 on Alcosta Boulevard because of its central location and proximity to Interstate 680.

#### Hazardous Materials Team

The Hazmat Team is based out of Station 35 in Blackhawk and is made up of 26 State Certified Hazardous Materials Technician/Specialists. The Hazmat Team is capable of specialized entry, chemical analysis, and hazard mitigation.

### *Response Times and Protocols*

The Fire District's goal is an overall response time of 5 minutes 95 percent of the time. When the first units for a structure fire are dispatched from the 13 staffed emergency response companies, the three closest engines, a ladder truck and the shift Battalion Chief are automatically assigned. In addition, a rescue medic ambulance can be dispatched in the event one of the occupants of the structure or Fire District personnel needs medical assistance at the scene.

### *Performance*

The Insurance Services Office (ISO) Public Protection Classification Program currently rates the Fire District a 2 on a scale of 1 to 10, with 1 being the highest possible rating and 10 being the lowest. The ISO rating measures individual fire protection agencies against a Fire Suppression Rating Schedule, which includes such criteria as facilities and support for handling and dispatching fire alarms, first-alarm response and initial attack, and adequacy of local water supply for fire-suppression purposes. The ISO ratings are subsequently used to establish fire insurance premiums. Only 5 percent of the more than 44,000 fire agencies in the United States receive an ISO 2 rating or higher.

2. Please provide the current average response times for first alarm calls for the Fire District as a whole, and for the four stations nearest the project site (Station Nos. 30, 34, 38, and 39).

For Fiscal Year 2005 – 2006 the average emergency response time for the District as a whole was 4 minutes 54 seconds.

The average response time for each station over the last four years is as follows:

30 5 minutes 05 seconds\*  
34 4 minutes 56 seconds\*  
38 4 minutes 48 seconds\*  
39 4 minutes 32 seconds\*

\* Includes response times to all emergency calls in the station area regardless of the location of the apparatus dispatched.

3. Please provide an estimate of the annual number of calls for service the proposed project would be expected generate. Please also provide an estimate by type of call (e.g., EMS, fire, etc.).

This information is not available at this time.

4. Please provide information about any mutual aid agreements the Fire District has with other agencies.

The District exchanges mutual aid with the four adjacent fire agencies and CALFIRE. During the 2005 – 2006 fiscal year we extended mutual aid 252 time and received it 45 times.

5. Please provide information about the residential and non-residential development fee schedule.

There are no development fees assessed by the fire district.

6. Please describe any significant challenges the proposed project may present to the Fire District. This includes concerns related to response times, staffing, apparatus, fire stations, etc. For any significant concerns, please describe what measures you would recommend to reduce the potential impact.

Please reference our NOP response letter to the City of San Ramon dated 5/1/07.

7. If a Needs Assessment or Municipal Service Review of the Fire District has recently been prepared, and if you are willing to provide us with a copy, it would be appreciated.

There is no current Needs Assessment or Municipal Services Reviews.

8. Please feel free to provide any additional information you believe to be relevant to the proposed project.

Thank you for taking the time to respond to this questionnaire.

Please return the completed questionnaire on Fire District letterhead by June 8, 2007 to:

Michael Brandman Associates  
Bishop Ranch 3  
2633 Camino Ramon, Suite 460  
San Ramon, CA 94583  
Attn: Grant Gruber

Phone: (925) 830-2733  
Fax: (925) 830-2715  
E-mail: [ggruber@brandman.com](mailto:ggruber@brandman.com)



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## CITY OF SAN RAMON

2222 CAMINO RAMON  
SAN RAMON, CALIFORNIA 94583  
PHONE: (925) 973-2500  
WEB SITE: [www.sanramon.ca.gov](http://www.sanramon.ca.gov)

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June 5, 2007

Michael Brandman Associates  
Bishop Ranch 3  
2633 Camino Ramon, Suite 460  
San Ramon, CA 94583  
Attn: Grant Gruber

Dear Grant,

Below is the information you requested for the San Ramon City Center – Environmental Impact Report:

#1 Our 2006 Annual Report was delivered to your office. Should you have any questions regarding the information please feel free to contact me.

#2 Our current response times to all calls for service are meeting the guidelines set by the City. With the Police Department being located in the City Center the response times should decrease as the location is more centrally located within the city boundaries. Responses to calls for service within the City Center itself will definitely be quick based upon the location of the new Police Department.

#3 It is difficult to estimate the number of service calls the City Center Project would generate. However, based upon average calls for our City and its population I would estimate the City Center would generate 1500-2000 calls for service each year. This includes both the residential portion of the project and the commercial portions as well. By comparison, we responded to approximately 51,000 calls for service in 2006 for the entire City of San Ramon. Based on our averages 28% of the calls would be considered Priority and 72% Non-Priority calls for service.

#4 The facility itself should include the following:

- 12,000 – 15,000 sq. ft. Dedicated to the Police Department to accommodate 100 – 125 FTE's. Our current FTE is 76 and based upon the growth of the City 100-125 is projected by 2015.

- A lobby and front counter
- Administrative Offices to include a Police Records Bureau and Investigations Division
- Male and Female Locker Rooms with restroom and shower facilities
- A secure area for a Police Armory
- A secure evidence storage area
- A separate entrance for Police Personnel
- A discreet entrance to allow officers to bring arrested persons into the building for processing. This area should be in close proximity to the parking area to minimize the distance from the patrol vehicle to the entrance to the building.
- A large room (approximately 30'x30') for training and police briefings
- Secured parking for all police vehicles

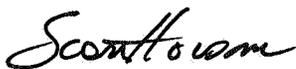
The existing Police Building is extremely inadequate and the department is forced to lease additional space away from the current City Hall. The new building will allow for centralization and provide for better operations and public access.

#5 I do not foresee any alarming challenges that the project will create. Obviously any new development will require additional resources. As mentioned earlier, I believe that based on the location itself, response times will be improved. Additional staff will be necessary and I would project an additional four to five officers and two civilian parking enforcement personnel. When examining the challenges, the benefit of the project far outweighs any challenges.

#6 I do not deal with the developmental fee schedule and I am under the impression that this project is no different than any other project in the City. I see no need to make any changes to the fees.

Hopefully I have addressed the necessary information needed for your report. If you need further information please feel free to contact me at (925) 973-2701.

Sincerely,



Scott Holder  
Chief of Police  
City of San Ramon



**SAN RAMON VALLEY UNIFIED SCHOOL DISTRICT**  
2430 Camino Ramon, Suite 240, San Ramon, CA 94583  
**FACILITIES DEVELOPMENT**  
Office (925) 552-5986 FAX (925) 328-0560

June 19, 2007

Michael Brandman Associates  
Bishop Ranch 3  
2633 Camino Ramon, Suite 460  
San Ramon, CA 94583

RE: San Ramon City Center – Environmental Impact Report

Thank you for the opportunity to provide some preliminary information regarding the potential impact of the San Ramon City Center project on the San Ramon Valley Unified School District.

**San Ramon Valley Unified School District Questionnaire**

*Question 1: The proposed project would include 487 high-density residential units, ranging in size from 750 to 2,000 square feet. Please provide estimated student generation rates for these residential units.*

**Response:** In May of 2007 the San Ramon Unified School District completed its *School Facilities Needs Analysis* as required by Government Code §65995.6, student generation factors were determined by developing a database of the addresses of new housing constructed in the District within the past five years, and matching these addresses to the addresses of enrolled students. The table below reflects the number of students expected to be generated by 487 high-density residential units.

<b>Grade Level</b>	<b>Student Generation Factors For Multi-Family</b>	<b>Students Generated</b>
K-5	.23	112
6-8	.04	19
9-12	.05	24
<b>Total</b>	<b>.33</b>	<b>155</b>

*Question 2: Please indicate what elementary, middle, and high schools would serve the proposed project. Also, please indicate if these schools would have adequate capacity to accommodate students from the proposed project.*

**Response:** Currently, the San Ramon City Center project is located within the Twin Creeks Elementary, Iron Horse Middle and California High school boundaries. There are a number of new and proposed residential developments that would also feed into these schools, namely the Faria Ranch, Chu property and Crow Canyon Specific Plan. If these new and proposed residential developments materialize they will significantly affect our ability to house students generated from these developments within the current boundaries. In order to accommodate the students being generated by these residential developments the District will need to reevaluate its current school boundaries.

The enrollment at Twin Creeks Elementary School as of May 2007 is 512 students with a master planned capacity of 540 students. Iron Horse has an enrollment of 920 students with a master planned capacity of 960 students and California High School has an enrollment of 2526 with a master planned capacity of 2400. With the build out of the above-mentioned projects, including City Center, the enrollment could potentially increase by 499 elementary, 100 middle and 133 high school students. Based on the current enrollments and master planned capacities these students could not be accommodated by their currently assigned schools.

*Question 3: Please provide information about how SRVUSD plans to accommodate additional enrollment generated by planned development within the District's boundaries. This includes information pertaining to the location and capacity of new or expanded schools and how SRVUSD plans to finance capital improvements.*

**Response:** As stated above, there is not enough capacity at the assigned resident schools to house students from all the new and proposed developments. Therefore, the District would likely consider boundary changes that will affect some of these developments. In some instances the students may be diverted to other schools in the district or portables/additions may be added to existing campuses to provide for additional housing. These portables/additions would be paid for out of developer fees collected by new residential and commercial development.

*Question 4: Please provide information about the residential and non-residential development fee schedule.*

**Response:** By rules and law underlying the collection of the basic statutory fees based on Government Code §65995 and Education Code §17620, districts can currently collect \$2.63 per square foot for residential construction and \$0.42 for commercial/industrial and senior housing, these fees are referred to as Level 1 Fees. The San Ramon Valley Unified School District has met the statutory eligibility requirements to collect Level 2 Fees by submitting a timely application to the State Allocation Board for new construction funding, and by satisfying two of four cost-reduction options required as of January 2000. As stated in the *School Facilities Needs Analysis* (dated May 2007), the District has satisfied the requirements under Government Code §65995.5 and §65995.6 to charge the Level 2 Fees and therefore, on June 26, if approved by the Board of Education, the Level 2 Fees for the SRVUSD will be increased from \$6.85 to \$6.93 per square foot for new residential construction.

*Question 5: Iron Horse Middle School is located within one-quarter-mile of the City Center project site. Please indicate if SRVUSD has any concerns related to construction or operational activities associated with the City Center project as it relates to Iron Horse Middle School.*

**Response:** As always with any type of construction we are always concerned with the safety of our students and community. Of utmost concern with the City Center project would be construction traffic, noise and dust. Traffic congestion could be significantly mitigated if the hours of delivery of supplies, building materials, concrete etc. could be limited to the hours when the students are in school and the parents dropping off and picking up have had time to leave the vicinity of the school. Due to the size of the City Center project there may also be a concern regarding contractors parking in the school parking lots and walking through campus to the Iron Horse Trail to the job site. State Law mandates that contractors hired by the District be finger printed and District policy mandates that anyone entering the school grounds during school hours must check into the office. Therefore, it would not be appropriate for contractors to park in the school parking lot and walk through campus. This type of action would be strictly forbidden. Any loud and persistent noise associated with the construction project would need to be scheduled during winter or spring breaks or during the summer in order to minimize its impact on academic activities. Plans could be made to hold summer school in a neighboring school if necessary. Keeping the surrounding streets clean of dirt and debris and the dust level down would also be of concern. If a utility shut down were required we would need a minimum of 48 hours of notice, more if possible.

As with our own construction projects we are sensitive to the testing dates and we make sure that it is written into our contracts with the contractors that noise and construction be at a minimum on these days so as not to disrupt the students. School calendars are published on the Internet and would be a good resource for information on school days, holidays and testing dates.

Again, we appreciate the opportunity to respond on the City Center project and look forward to receiving a copy of the Initial Environmental Impact Report. Should you have any questions regarding our responses please do not hesitate to contact me at 925-552-2969 or e-mail me at [tperaul@srvusd.net](mailto:tperaul@srvusd.net).

Sincerely,



Tina Perault  
Senior Planning and Development Manager



**SAN RAMON VALLEY UNIFIED SCHOOL DISTRICT**  
2430 Camino Ramon, Suite 240, San Ramon, CA 94583  
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Office (925) 552-5986 FAX (925) 328-0560

June 19, 2007

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Sincerely,



Tina Perault  
Senior Planning and Development Manager



Pacific Gas and  
Electric Company®

Service Planning  
Mission Division -- Area 2

998 Murrieta Boulevard  
Livermore, CA 94550  
Fax: 925.373.2602

May 17, 2007

To: Ave' Florance  
Michael Brandman Associates  
2633 Camino Ramon, Suite 460  
San Ramon, CA 94583

Dear Ms. Florance:

RE: Proposed Mix Use Project of four parcels on all four quadrants of Bollinger  
Canyon Road and Camino Ramon, San Ramon, CA - Will Serve

Gas and electric service is available to your proposed project on all four quadrants of  
Bollinger Canyon Road and Camino Ramon, San Ramon, CA  
Extension of these facilities will be made in accordance with our gas and electric rules  
and regulations on file with the State of California Public Utilities Commission at the  
time the applicant applies for gas and electric service.

Any relocation or re-arrangement of existing facilities would be done at the applicants  
expense.

If you have any questions, please call me at (925) 373-2603.

Sincerely

A handwritten signature in black ink, appearing to read 'Terry Mullings', written in a cursive style.

Terry Mullings  
Project Manager

## Central Contra Costa Sanitary District Questionnaire

1. *If available, please provide a copy (electronic is preferred) of the most recent Annual Report. We plan to use the Annual Report as the basis for our description of Central San.*

CCCSD does not produce an annual report. There are recent descriptions of CCCSD in other City of San Ramon environmental documents, including the Northwest Specific Plan EIR and the Crow Canyon Specific Plan EIR.

2. *Central San's website indicates that its wastewater treatment plant in Martinez has a dry weather capacity of 55 million gallons per day (mgd) and a wet weather capacity of 240 mgd. The website also indicates that it has an average dry weather flow of 45 mgd. Please confirm that these numbers are correct. Also, please indicate if the treatment plant is in compliance with all applicable federal and state environmental health and safety standards for treated wastewater.*

CCCSD's average dry weather flow (ADWF) effluent discharge limit is 53.8 million gallons per day (MGD) and there is no wet weather limit. The 2006 ADWF processed was 39.1 MGD. The treatment plant is in compliance with all applicable federal and state environmental health and safety standards for treated wastewater.

3. *If available, please provide wastewater generation rates for the proposed project based on square footage.*

See the accompanying Development Capacity Analysis completed by CCCSD. The wastewater generation of the project would be about 88,500 hundred cubic feet (HCF) per year or about 181,935 gallons per day (less than 0.2 MGD).

4. *Please briefly describe any future expansion or upgrade plans for the treatment plant or the wastewater collection trunk system in the San Ramon area. Please also indicate the potential sources of funding for these improvements.*

CCCSD's 10-Year Capital Improvement Plan and FY 2007-2008 Capital Improvement Budget include various improvements to the treatment plant for regulatory compliance, safety, renovations, process improvement, and expansion, none of which are needed due to the proposed City Center project. Likewise, CCCSD plans to complete the final phase of its San Ramon Interceptor project in FY 2007-2008 (approximately two miles of 36-inch diameter gravity sewer in the Iron Horse Trail, from Norris Canyon Road in San Ramon to St. James Court in Danville). This project has been planned since the mid-1980s and also is not directly related to the proposed City Center project.

5. *Please indicate if Central San would have adequate wastewater treatment capacity to serve the proposed project.*

CCCSD has adequate wastewater treatment capacity to serve the proposed project. The project's wastewater generation represents only about one percent of the remaining effluent discharge quantity available under CCCSD's current discharge permit.

6. *Please feel free to provide any additional information you believe to be relevant to the proposed project.*

None.

Thank you for taking the time to respond to this questionnaire.

Please return the completed questionnaire on Central San letterhead by June 8, 2007 to:

Michael Brandman Associates  
Bishop Ranch 3  
2633 Camino Ramon, Suite 460  
San Ramon, CA 94583  
Attn: Grant Gruber

Phone: (925) 830-2733  
Fax: (925) 830-2715  
E-mail: [ggruber@brandman.com](mailto:ggruber@brandman.com)

# Central Contra Costa Sanitary District

---

June 21, 2007

TO: RUSSELL LEAVITT

VIA: GAIL CHESLER *gc*

FROM: JAMES KONG *gc for [unclear]*

SUBJECT: DEVELOPMENT CAPACITY ANALYSIS ON THE SAN RAMON CITY CENTER MIXED USE PROJECT

MAP: 102B6, 102B7, 102C7

APN: 213-133-063  
213-120-009  
213-133-086  
213-120-013

## Summary

A capacity study has been performed for the San Ramon City Center Mixed Use Project. The ArcSNAP modeling results show that under both a 5-year storm event and a 20-year storm event, the sewer system studied will be less than one hundred percent full. The existing sewer system has sufficient capacity to handle the additional flow from this project.

## Analysis

The San Ramon City Center Mixed Use Project consists of four parcels on Bollinger Canyon Road west of the Iron Horse Trail. The project involves tearing down an existing property on one of the parcels and constructing a new mixed-use city center, office buildings, and residential units. The conversion of various building types into point source in hundred cubic feet per year, which can be input into ArcSNAP, is shown in the Attachment. A capacity analysis was performed for the downstream pipe sections for both a 5-year storm event and a 20-year storm event using the ArcSNAP program.

Figure 1 and Table 1 show the ArcSNAP results for a 20-year storm event after the proposed development. The results show that under a 20-year storm event, the sewer system studied has sufficient capacity and would not have any overflow problems. The run for a 5-year storm event shows similar results, which are not included here.

# Flow Routing Detail Report

Scenario Name: SanRamon\_CityCenter\_20yr\_af  
 Scenario Year: 2008  
 I/I Multiplier: 1.56

Pipe ID	Dia (in)	Man N	Slope (ft/ft)	Len (ft)	Full Pipe Cap (mgd)	Velocity (fps)	Full Flush	Split Flow Rule	BWF (mgd) Peak	Avg Factor	Peak	RDI/I (mgd) Aftten	GWI (mgd)	Design Flow (mgd)	Pipe Design Capacity (mgd)	Design Criteria (%)	Percent Full	Excess Design Capacity (mgd)		
102B6 M22 102B6 M 21	10	0.013	0.0148	495	1.72	4.9	3.0	D 100.0	0.19	3.74	0.72	0.09	1.00	0.00	0.72	(2)	1.33	77.0	41.8	0.61
102B6 M 21 102B6 M 20	10	0.013	0.0110	82	1.49	4.2	2.7-	D 100.0	0.19	3.74	0.72	0.09	1.00	0.00	0.72	(2)	1.14	77.0	48.5	0.42
102B6 M 20 102B6 M 19	10	0.013	0.0056	78	1.06	3.0	2.3-	D 100.0	0.24	3.65	0.88	0.01	1.00	0.01	0.89	(2)	0.82	77.0	83.8	-0.07
102B6 M 19 102B6 M 18	10	0.013	0.0057	23	1.07	3.0	2.3-	D 100.0	0.24	3.65	0.88	0.01	1.00	0.01	0.89	(2)	0.82	77.0	83.1	-0.06
102B6 M 18 102B6 M 17	10	0.013	0.0058	242	1.08	3.1	2.3-	D 100.0	0.24	3.65	0.88	0.01	1.00	0.01	0.89	(2)	0.83	77.0	82.4	-0.06
102B6 M 17 102B6 M 14	10	0.013	0.0057	432	1.07	3.0	2.3-	D 100.0	0.24	3.65	0.88	0.01	1.00	0.01	0.89	(2)	0.82	77.0	83.2	-0.07
102B6 M 14 102B6 M 13	10	0.013	0.0057	332	1.07	3.0	2.4-	D 100.0	0.28	3.59	1.02	0.01	1.00	0.01	1.02	(2)	0.82	77.0	95.7	-0.20
102B6 M 13 102B6 M 12	10	0.013	0.0057	365	1.07	3.0	2.4-	D 100.0	0.28	3.59	1.02	0.01	1.00	0.01	1.02	(2)	0.82	77.0	95.7	-0.20
102B6 M 12 102B6 42	12	0.013	0.0040	16	1.46	2.9	2.1	D 100.0	0.28	3.59	1.02	0.01	1.00	0.01	1.02	(2)	1.46	100.0	70.2	0.43
102B6 42 102B6 43	12	0.013	0.0040	100	1.46	2.9	2.1	D 100.0	0.28	3.59	1.02	0.01	1.00	0.01	1.02	(2)	1.46	100.0	70.2	0.43
102B6 43 102B6 M 11	12	0.013	0.0040	15	1.46	2.9	2.1	D 100.0	0.28	3.59	1.02	0.01	1.00	0.01	1.02	(2)	1.46	100.0	70.2	0.43
102B6 M 11 102B6 M 10	12	0.013	0.0040	523	1.46	2.9	2.2	D 100.0	0.35	3.51	1.23	0.01	1.00	0.01	1.24	(2)	1.46	100.0	85.2	0.22
102B6 M 10 102B6 M 9	12	0.013	0.0049	500	1.61	3.2	2.4	D 100.0	0.37	3.49	1.29	0.01	1.00	0.01	1.30	(2)	1.61	100.0	80.8	0.31
102B6 M 9 102B7 M 17	12	0.013	0.0049	500	1.61	3.2	2.4	D 100.0	0.38	3.48	1.32	0.02	1.00	0.02	1.33	(2)	1.51	100.0	88.2	0.18
102B7 M 17 102B7 M 16	12	0.013	0.0043	500	1.51	3.0	2.3	D 100.0	0.37	3.34	1.89	0.13	1.00	0.13	1.24	(2)	1.61	100.0	77.0	0.37
102B7 M 16 102B7 85	15	0.013	0.0040	40	2.64	3.3	2.5	D 100.0	0.57	3.34	1.89	0.13	1.00	0.13	1.91	(2)	2.64	100.0	72.4	0.73
102B7 85 102B7 86	15	0.013	0.0040	45	2.64	3.3	2.5	D 100.0	0.57	3.34	1.89	0.13	1.00	0.13	1.91	(2)	2.64	100.0	72.4	0.73
102B7 86 102B7 M 1	15	0.013	0.0040	53	2.64	3.3	2.5	D 100.0	0.57	3.34	1.89	0.13	1.00	0.13	1.91	(2)	2.64	100.0	72.4	0.73
102B7 M 1 102C7 M 6	15	0.013	0.0040	397	2.64	3.3	2.5	D 100.0	0.57	3.34	1.89	0.13	1.00	0.13	1.91	(2)	2.64	100.0	72.5	0.73
102C7 M 6 102C7 M 5	15	0.013	0.0040	505	2.64	3.3	2.5	D 100.0	0.57	3.34	1.89	0.13	1.00	0.13	1.91	(2)	2.64	100.0	72.5	0.73
102C7 M 5 102C7 M 4	15	0.013	0.0040	495	2.64	3.3	2.5	D 100.0	0.57	3.34	1.89	0.13	1.00	0.13	1.91	(2)	2.64	100.0	72.5	0.73
102C7 M 4 102C7 M 3	18	0.013	0.0045	134	4.55	4.0	2.6	D 100.0	0.57	3.34	1.89	0.13	1.00	0.13	1.91	(2)	4.55	100.0	42.0	2.64

Velocity Flags: (-) Flow is below design velocity  
 (+) Flow is above design velocity  
 Pipe improvements/costs assume existing slope

Design flow is the greater of the two design rules:  
 (1) - (BWF \* 1.2) + (ARDI/I \* 1) + (GWI \* 1)  
 (2) - (PBWF \* 1) + (GWI \* 1)

Split Flow Rules: D=Default, %=Percent, 1-5=Priority  
 Split Flow Factors: If code=D or % then factor is a percentage, otherwise factor shows flow limit.  
 Design capacity is based on design criteria.

Table 1. San Ramon City Center Mixed Use Project, 20 Year Storm Event

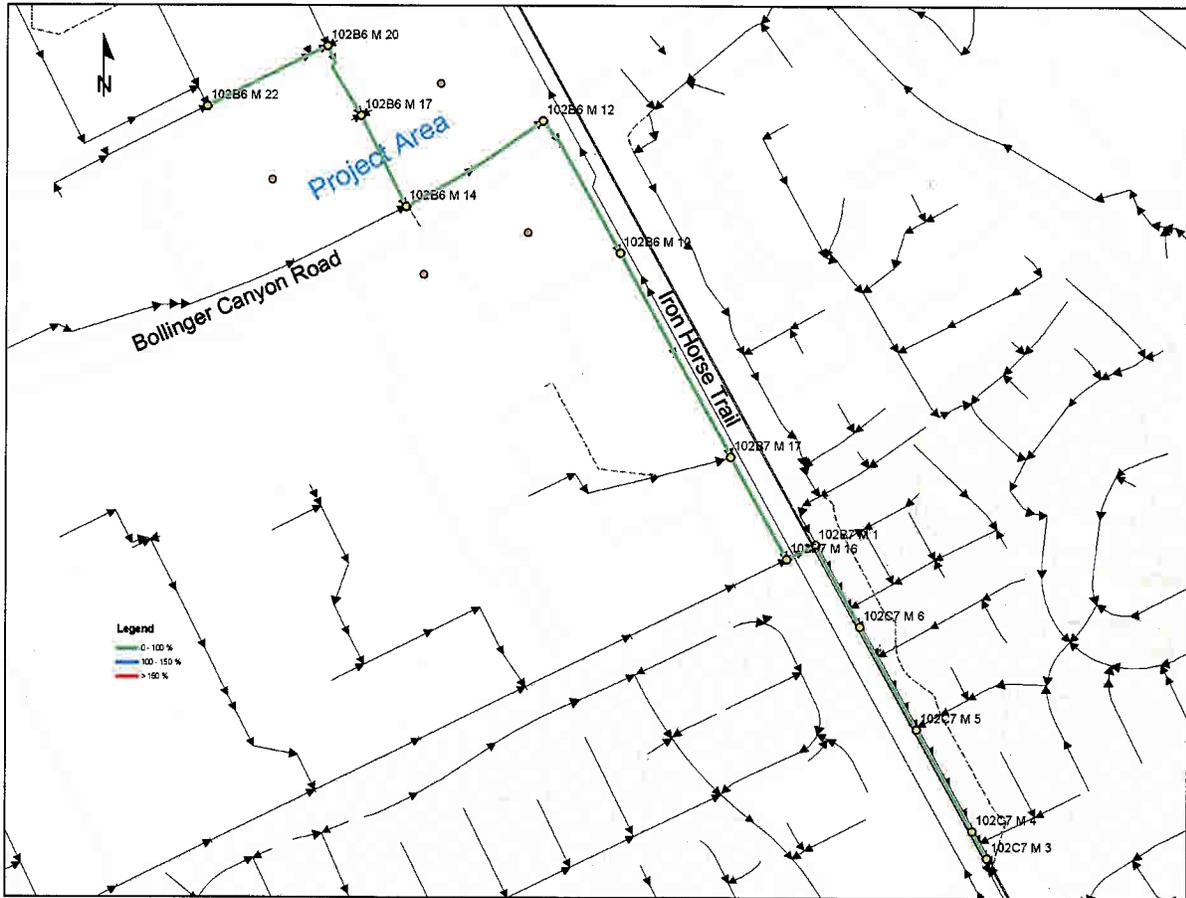


Figure 1. San Ramon City Center Mix Use Project, 20-Year Storm Event.

**Recommendation**

Based on the ArcSNAP analysis results, we conclude that the existing sewer system has sufficient capacity to handle the additional sewer flow from the San Ramon City Center Mix Use Project.

JK/mvp

Attachments

File: CSPlanning/ ArcSNAP/ Development Capacity Analysis

Appendix. Conversion of various building types into point source

**Bishop Ranch 1B, 2, and 3A**

	area (thousand ft <sup>2</sup> )	RUE/area	Dwelling units	RUE/Dwelling Unit	Total RUE	GPD/RUE	Total GPD	HCF/YR
Retail/Cinema	635.042	0.3			190.51	200	38103	18593
Hotel	139.867	1.272			177.91	200	35582	17363
Retail Flex	50.142	0.3			15.04	200	3009	1468
Residential			488	1	488.00	200	97600	47626
City Hall/Library	110.49	0.32			35.36	200	7071	3451
							Total Point Source (HCF/YR)	88500

**Bishop Ranch 1A (not converted)**

Class A office	682
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Conversion factor from GPD to HCF/YR      0.49