



Orange County Fire Authority Community Risk Reduction INFORMATIONAL BULLETIN 02-21

Subject: Midway City Fire Water Flow Report Requirements

Midway City is challenged with meeting the fire water flow requirements for new buildings. Water is provided to this community through three different water agencies, Midway Mutual Water Company, Eastside Water Association, and South Midway City Mutual Water Company (map and contact telephone numbers are on reverse side).

All three water agencies have limited water reservoir tanks and only South Midway City Mutual has an automatic water supply interconnection to another water agency (Westminster Water District). Each of these water agencies is independently supplying 200-300 homes fire protection and domestic water from a single source well. Water limitations may impact proposed building projects from meeting the fire water flow requirements identified in the Fire Code.

- **Midway City Mutual Water Company** has two 90,000 gallon reservoir tanks with a 650 GPM water pump, 4" diameter water mains, and 12 fire hydrants. Recent hydrant water tests have provided less than the minimum fire code requirements. All projects in this area need to provide a "Will Serve Letter" from Midway Mutual Water Company with a completed OCFA Water Availability Form prior to OCFA and OC Building Department approval.
- **Eastside Water Association** has a 40,000 gallon and 10,000 gallon reservoir tanks with a 1400 GPM water pump, 6" diameter water mains, and 34 fire hydrants, and a "manual" interconnect valve with Westminster Water District. Recent hydrant water tests have provided minimum fire flow requirements for residential structures up to 3600 square feet. All projects in this area need to provide a "Will Serve Letter" from Eastside Water Association with a completed OCFA Water Availability Form prior to OCFA and OC Building Department approval.
- **South Midway City Mutual Water Company** has a 20,000 gallon tank with an "automatic" interconnect valve with the Westminster Water District, 6" diameter water mains to 4 fire hydrants, and 10 Westminster Water District fire hydrants. Recent hydrant water tests have provided the minimum fire flow requirements for all proposed projects. All projects in this area need to provide a domestic water "Will Serve Letter" from South Midway City Mutual Water Company and a separate "Will Serve Letter" from the Westminster Water District for the fire protection water.

Additional questions regarding specific fire protection water requirements may be forwarded to OCFA Planning & Development @ 714-573-6100.

Midway City Water Agencies



**MIDWAY CITY
MUTUAL WATER** →

← **EASTSIDE
WATER**

← **SOUTH MIDWAY
CITY MUTUAL**

AGENCY CONTACT:

- Eastside Water
714-894-8106
- South Midway Mutual Water
714-842-8080
- Midway Mutual Water
714-532-9409
- Westminster Water District
714-898-3311





OCFA WATER AVAILABILITY FORM

SECTION A: To be completed by customer

Project Name: _____ OCFA SR #: _____ ASSIGNED UPON PLAN SUBMITTAL

Project Address: _____ City: _____

Applicant Phone #: (_____) _____ Fax #: (_____) _____

Area of largest building _____ ft²; Construction type? (check one): IA IB IIA IIB IIIA IIIB IV VA VB

Is this building sprinklered throughout? (check one) N Y

SECTION B: To be completed by local water department/district Customer to provide results to OCFA

Water Department/District: _____

Test location (indicate address or cross-streets & provide reference map): _____

Hydrant number(s) (if applicable): _____

Elevation of test hydrant: _____ feet above sea level

Date of Test¹: _____ Time of test¹: _____ am pm

¹ Test to be performed as close as possible to the time that the lowest flows and pressures are expected (e.g., M-F, 6:00 – 9:00 am and 5:00 - 9:00 pm)

FLOW TEST RESULTS			
TEST INFORMATION IS VALID FOR 6 MONTHS FROM DATE TEST IS PERFORMED			
Static pressure:	psi	Residual pressure:	psi
Observed flow:	gpm	Flow calc'd at 20 psi:	gpm

Check the box if the test information above was obtained in a manner other than an actual flow test (i.e. by computer modeling).

Based on fluctuations known to exist at the site of the test, provide estimated values for the following:			
Maximum static pressure	psi	Minimum static pressure	psi
Minimum residual pressure	psi	Minimum residual flow	gpm

I have witnessed and/or reviewed this water flow information and by personal knowledge and/or on-site observation certify that the above information is correct.

Name: _____ Company/Agency: _____

Signature: _____ Title: _____

Date: _____

ATTACHMENT 23

CFC TABLE B105.1(2): Minimum Required Fire Flow and Flow Duration for Buildings in OCFA Jurisdiction

FIRE FLOW CALCULATION AREA (square feet)					DETACHED SINGLE-FAMILY RESIDENCE/DUPLEX		OTHER BUILDINGS		
					FIRE FLOW (gallons per minute at 20 psi residual)		DURATION (hours)	FIRE FLOW (gallons per minute at 20 psi residual)	
Type IA/IB	Type IIA/IIIA	Type IV/VA	Type IIB/IIIB	Type VB	NS	S		NS	S
0-22700	0-12700	0-8200	0-5900	0-3600	1000	1000	1	1500	1500
22701-30200	12701-17000	8201-10900	5901-7900	3601-4800	1750	1000	NS: 2 S: 1	1750	1500
30201-38700	17001-21800	10901-12900	7901-9800	4801-6200	2000	1000		2000	1500
38701-48300	21801-24200	12901-17400	9801-12600	6201-7700	2250	1125		2250	1500
48301-59000	24201-33200	17401-21300	12601-15400	7701-9400	2500	1250		2500	1500
59001-70900	33201-39700	21301-25500	15401-18400	9401-11300	2750	1375		2750	1500
70901-83700	39701-47100	25501-30100	18401-21800	11301-13400	3000	1500	NS: 3 S: 1	3000	1500
83701-97700	47101-54900	30101-35200	21801-25900	13401-15600	3250	1625		3250	1625
97701-112700	54901-63400	35201-40600	25901-29300	15601-18000	3500	1750		3500	1750
112701-128700	63401-72400	40601-46400	29301-33500	18001-20600	3750	1875	NS: 4 S: 1	3750	1875
128701-145900	72401-82100	46401-52500	33501-37900	20601-23300	4000	2000		4000	2000
145901-164200	82101-92400	52501-59100	37901-42700	23301-26300	4250	2125		4250	2125
164201-183400	92401-103100	59101-66000	42701-47700	26301-29300	4500	2250		4500	2250
183401-203700	103101-114600	66001-73300	47701-53000	29301-32600	4750	2375		4750	2375
203701-225200	114601-126700	73301-81100	53001-58600	32601-36000	5000	2500		5000	2500
225201-247700	126701-139400	81101-89200	58601-65400	36001-39600	5250	2625		5250	2625
247701-271200	139401-152600	89201-97700	65401-70600	39601-43400	5500	2750		5500	2750
271201-295900	152601-166500	97701-106500	70601-77000	43401-47400	5750	2875		5750	2875
295901+	166501+	106501-115800	77001-83700	47401-51500	6000	3000		6000	3000
		115801-125500	83701-90600	51501-55700	6250	3125		6250	3125
		125501-135500	90601-97900	55701-60200	6500	3250		6500	3250
		135501-145800	97901-106800	60201-64800	6750	3375		6750	3375
		145801-156700	106801-113200	64801-69600	7000	3500	7000	3500	
		156701-167900	113201-121300	69601-74600	7250	3625	7250	3625	
		167901-179400	121301-129600	74601-79800	7500	3750	7500	3750	
		179401-191400	129601-138300	79801-85100	7750	3875	7750	3875	
		191401+	138301+	85101+	8000	4000	8000	4000	

S: Provided with an approved sprinkler system throughout the structure NS: No fire sprinklers or partially protected with a sprinkler system