APPENDIX C
COMMUNITY ASSESSMENT METHODOLOGY

1) The district was divided into assessment areas based on access and similarity of fuel, infrastructure, and construction characteristics.

2) Each assessment area was divided into neighborhoods.

3) Each neighborhood was rated using the NFPA 1144 Wildland Fire Risk and Hazard Severity Assessment Form. The rating assigned represents the average conditions for the neighborhood.

4) Road widths were measured where necessary.

5) Road grades and slopes were determined from GIS maps and field checked.

6) Fuel models were determined by satellite imagery interpretation and field checked. Photographs were used to double check field assessments and provide a baseline record. While the NFPA form refers to NFDRS fuel models the corresponding FBPS fuel models are:

Light	1, 2, 3
Medium	5, 6, 7, 8, 9
Heavy	4, 10
Slash	11, 12, 13

7) When fuel or defensible space conditions in a neighborhood were best represented by two different rating classes, an average was used. For example, when a neighborhood was on the boundary between dense forest (20 points) and light brush (10 points), with approximately half of the homes exposed to each condition, a rating of 15 points was assigned.

8) Ratings for individual neighborhoods were totaled and averaged to arrive at the assessment area rating.

Wildfire Fire Risk and Hazard Severity Form NFPA 1144						
Upper Indian Hills Assessment Area		**SW of Parm. Gulch**	**Alpine Village**	**NE of Parm. Gulch**	**Cameyo**	**Average**
Means of Access						
Ingress and Egress	Points					**1.75**
2 or more roads in & out	0	0	0	0		
One road in & out	7				7	
Road Width						**2.50**
> 24 ft	0		0			
> 20 ft < 24 ft	2	2				
< 20 ft	4			4	4	
Road Condition						**3.00**
Surfaced Road, grade <5%	0		0			
Surfaced Road, grade >5%	2					
Non-surfaced Road, grade <5%	2	2				
Non-surfaced Road, grade >5%	5			5	5	
Other than all season	7					
Fire Access						**3.00**
< 300 ft with turnaround	0		0			
> 300 ft with turnaround	2	2				
< 300 ft with no turnaround	4					
> 300 ft with no turnaround	5			5	5	
Street Signs						**2.00**
Present - reflective	0					
Present - non-reflective	2	2	2	2	2	
Not present	5					
Vegetation (fuel models)						
Predominant veg						**13.75**
Light - 1, 2, 3	5		5			
Medium - 5, 6, 7, 8, 9	10	15		15		
Heavy - 4, 10	20				20	
Slash - 11, 12, 13	25					
Defensible Space						**12.00**
> 100 ft around structure	1					
> 70 ft < 100 ft around structure	3		3			
> 30 ft < 70 ft around structure	10			10	15	
< 30 ft around structure	25	20				
Topography Within 300 ft of Structures						
Slope						**5.50**
< 9%	1					
10% to 20%	4		4	4		
21% to 30%	7	7			7	
31% to 40%	8					
> 41%	10					
Additional Rating Factors (rate all that apply)						
Additional factors						**4.00**
Topographic features	0-5	1	0	1	2	**1.00**
History of high fire occurrence	0-5	0				**0.00**
Severe fire weather potential	0-5	3	3	3	3	**3.00**
Separation of adjacent structures	0-5	0				**0.00**
Roofing Assembly						
Roofing						**0.00**
Class A	0	0	0	0	0	
Class B	3					
Class C	15					
Unrated	25					

Upper Indian Hills Assessment Area		SW of Parm. Gulch	Alpine Village	NE of Parm. Gulch	Cameyo	Average
Building construction						
Materials (predominant)						10.00
Non-combustible siding, eaves, deck	0					
Non-combustible siding/combustible deck	5					
Combustible siding and deck	10	10	10	10	10	
Building set-back						2.00
> 30 ft to slope	1	1	1	1		
< 30 ft to slope	5				5	
Available Fire Protection						
Water source						3.00
Hydrants 500 gpm < 1000 ft apart	0					
Hydrants 250 gpm < 1000 ft apart	1					
Non-pressurized > 250 gpm/2 hrs	3	3	3	3	3	
Non-pressurized < 250 gpm/2 hrs	5					
Water unavailable	10					
Organized response						1.00
Station < 5 mi from structure	1	1	1	1	1	
Station > 5 mi from structure	3					
Fixed fire protection						5.00
NFPA sprinkler system	0					
None	5	5	5	5	5	
Placement of gas and Electric Utilities						
Utilities						5.00
Both underground	0					
One above, one below	3					
Both above ground	5	5	5	5	5	
						HIGH
Totals for home or subdivision		79	42	74	99	74

Hazard Rating Scale
< 40 LOW
> 40 MODERATE
> 70 HIGH
> 112 EXTREME

Wildfire Fire Risk and Hazard Severity Form NFPA 1144							
Lower Indian Hills Assessment Area		**Santa Clara**	**Shawnee**	**Chiquita**	**Taos**	**Algonquin**	**Average**
Means of Access							
Ingress and Egress	Points						**4.20**
2 or more roads in & out	0			0	0		
One road in & out	7	7	7			7	
Road Width							**4.00**
> 24 ft	0						
> 20 ft < 24 ft	2						
< 20 ft	4	4	4	4	4	4	
Road Condition							**2.60**
Surfaced Road, grade <5%	0						
Surfaced Road, grade >5%	2						
Non-surfaced Road, grade <5%	2	2		2	2	2	
Non-surfaced Road, grade >5%	5		5				
Other than all season	7						
Fire Access							**4.25**
< 300 ft with turnaround	0						
> 300 ft with turnaround	2				2		
< 300 ft with no turnaround	4						
> 300 ft with no turnaround	5	5	5			5	
Street Signs							**2.00**
Present - reflective	0						
Present - non-reflective	2	2	2	2	2	2	
Not present	5						
Vegetation (fuel models)							
Predominant veg							**16.00**
Light - 1, 2, 3	5						
Medium - 5, 6, 7, 8, 9	10			10		10	
Heavy - 4, 10	20	20	20		20		
Slash - 11, 12, 13	25						
Defensible Space							**22.00**
> 100 ft around structure	1						
> 70 ft < 100 ft around structure	3						
> 30 ft < 70 ft around structure	10			10			
< 30 ft around structure	25	25	25		25	25	
Topography Within 300 ft of Structures							
Slope							**6.20**
< 9%	1			1			
10% to 20%	4						
21% to 30%	7				7	7	
31% to 40%	8	8	8				
> 41%	10						
Additional Rating Factors (rate all that apply)							
Additional factors							**5.40**
Topographic features	0-5	4	4	0	1	3	**2.40**
History of high fire occurrence	0-5	0					**0.00**
Severe fire weather potential	0-5	3	3	3	3	3	**3.00**
Separation of adjacent structures	0-5	0					**0.00**
Roofing Assembly							
Roofing							**1.20**
Class A	0		0	0	0		
Class B	3	3				3	
Class C	15						
Unrated	25						

Lower Indian Hills Assessment Area		Santa Clara	Shawnee	Chiquita	Taos	Algonquin	Average
Building construction							
Materials (predominant)							10.00
Non-combustible siding, eaves, deck	0						
Non-combustible siding/combustible deck	5						
Combustible siding and deck	10	10	10	10	10	10	
Building set-back							1.80
> 30 ft to slope	1	1		1	1	1	
< 30 ft to slope	5		5				
Available Fire Protection							
Water source							3.00
Hydrants 500 gpm < 1000 ft apart	0						
Hydrants 250 gpm < 1000 ft apart	1						
Non-pressurized > 250 gpm/2 hrs	3	3	3	3	3	3	
Non-pressurized < 250 gpm/2 hrs	5						
Water unavailable	10						
Organized response							1.00
Station < 5 mi from structure	1	1	1	1	1	1	
Station > 5 mi from structure	3						
Fixed fire protection							5.00
NFPA sprinkler system	0						
None	5	5	5	5	5	5	
Placement of gas and Electric Utilities							
Utilities							5.00
Both underground	0						
One above, one below	3						
Both above ground	5	5	5	5	5	5	
							HIGH
Totals for home or subdivision		112	57	91	96	95	90

Hazard Rating Scale
< 40 LOW
> 40 MODERATE
> 70 HIGH
> 112 EXTREME

Wildfire Fire Risk and Hazard Severity Form NFPA 1144					
285 Assessment Area		**Brookmont**	**El Comar**	**Mt. Lindo**	**Average**
Means of Access					
Ingress and Egress	Points				**7.00**
2 or more roads in & out	0				
One road in & out	7	7	7	7	
Road Width					**4.00**
> 24 ft	0				
> 20 ft < 24 ft	2				
< 20 ft	4	4	4	4	
Road Condition					**4.67**
Surfaced Road, grade <5%	0				
Surfaced Road, grade >5%	2	2			
Non-surfaced Road, grade <5%	2				
Non-surfaced Road, grade >5%	5			5	
Other than all season	7		7		
Fire Access					**2.00**
< 300 ft with turnaround	0				
> 300 ft with turnaround	2	2	2	2	
< 300 ft with no turnaround	4				
> 300 ft with no turnaround	5				
Street Signs					**3.00**
Present - reflective	0				
Present - non-reflective	2	2		2	
Not present	5		5		
Vegetation (fuel models)					
Predominant veg					**20.00**
Light - 1, 2, 3	5				
Medium - 5, 6, 7, 8, 9	10				
Heavy - 4, 10	20	20	20	20	
Slash - 11, 12, 13	25				
Defensible Space					**20.00**
> 100 ft around structure	1				
> 70 ft < 100 ft around structure	3				
> 30 ft < 70 ft around structure	10	10			
< 30 ft around structure	25		25	25	
Topography Within 300 ft of Structures					
Slope					**9.33**
< 9%	1				
10% to 20%	4				
21% to 30%	7				
31% to 40%	8	8			
> 41%	10		10	10	
Additional Rating Factors (rate all that apply)					
Additional factors					**3.00**
Topographic features	0-5	3	3	3	**3.00**
History of high fire occurrence	0-5	0			**0.00**
Severe fire weather potential	0-5	0			**0.00**
Separation of adjacent structures	0-5	0			**0.00**
Roofing Assembly					
Roofing					**0.00**
Class A	0	0	0	0	
Class B	3				
Class C	15				
Unrated	25				

285 Assessment Area		Brookmont	El Comar	Mt. Lindo	Average
Building construction					
Materials (predominant)					10.00
Non-combustible siding, eaves, deck	0				
Non-combustible siding/combustible deck	5				
Combustible siding and deck	10	10	10	10	
Building set-back					5.00
> 30 ft to slope	1				
< 30 ft to slope	5	5	5	5	
Available Fire Protection					
Water source					3.67
Hydrants 500 gpm < 1000 ft apart	0				
Hydrants 250 gpm < 1000 ft apart	1	1			
Non-pressurized > 250 gpm/2 hrs	3				
Non-pressurized < 250 gpm/2 hrs	5		5	5	
Water unavailable	10				
Organized response					1.00
Station < 5 mi from structure	1	1	1	1	
Station > 5 mi from structure	3				
Fixed fire protection					5.00
NFPA sprinkler system	0				
None	5	5	5	5	
Placement of gas and Electric Utilities					
Utilities					3.33
Both underground	0	0			
One above, one below	3				
Both above ground	5		5	5	
					High/Extreme
Totals for home or subdivision		80	114	109	101

Hazard Rating Scale

< 40 LOW
> 40 MODERATE
> 70 HIGH
> 112 EXTREME