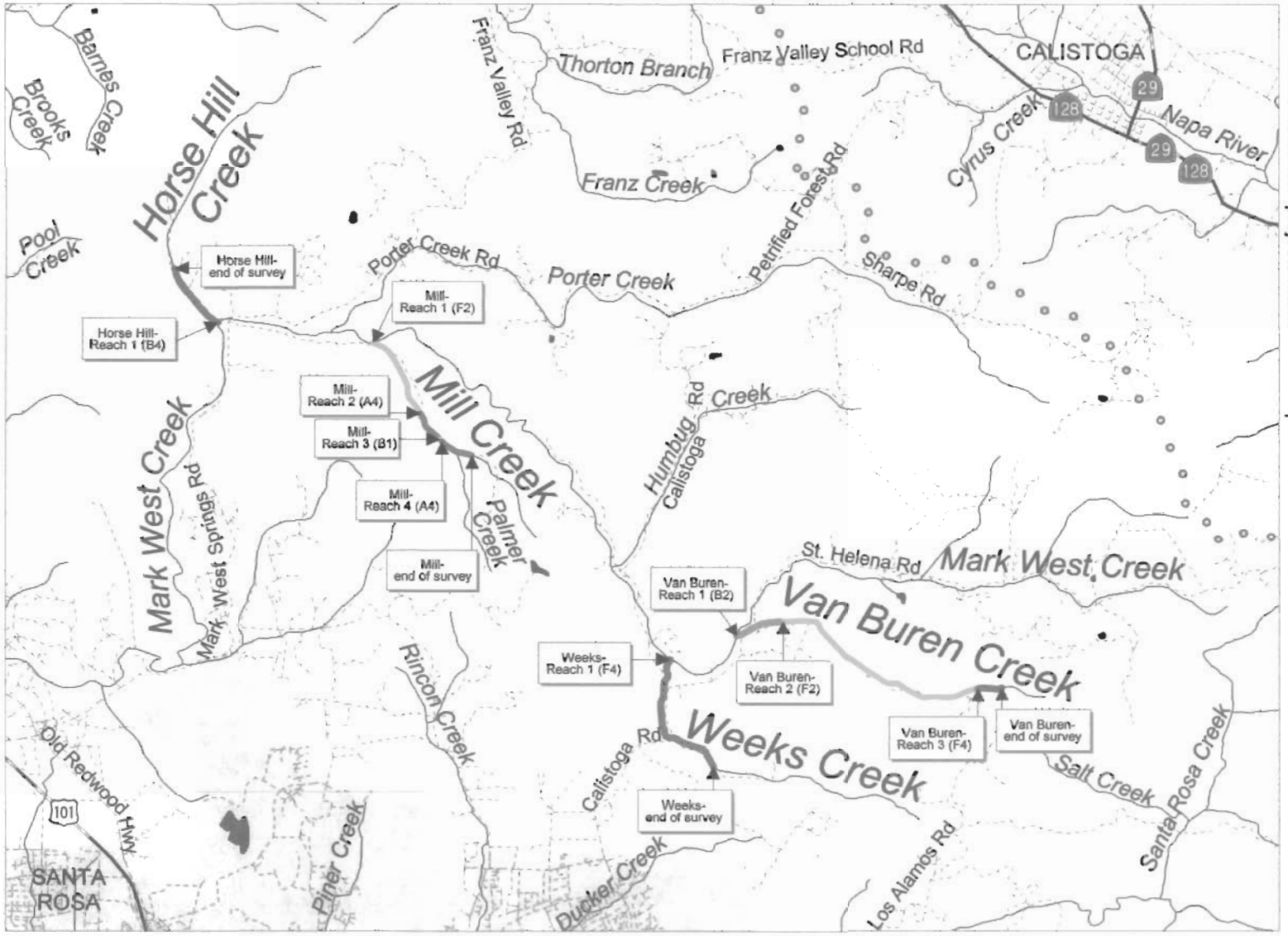
Mark West Tributaries-
Horse Hill Creek, Mill Creek, Weeks Creek, Van Buren Creek



Central Coast Region
Department of Fish and Game

February 22, 2001
I:/mondo3/data/stream-projects/markwesttribs.apr

Weeks Creek

Drainage: Mark West Creek, Russian River

Table 1 - SUMMARY OF RIFFLE, FLATWATER, AND POOL HABITAT TYPES

Survey Dates: 07/31/97

Confluence Location: QUAD: Mark West Sprgs LEGAL DESCRIPTION: T8NR7WS29 LATITUDE: 38°30'32" LONGITUDE: 122°38'53"

HABITAT UNITS	UNITS FULLY MEASURED	HABITAT TYPE	HABITAT PERCENT OCCURRENCE	MEAN LENGTH (ft.)	TOTAL LENGTH (ft.)	PERCENT TOTAL LENGTH	MEAN WIDTH (ft.)	MEAN DEPTH (ft.)	MEAN AREA (sq.ft.)	ESTIMATED TOTAL AREA (sq.ft.)	MEAN VOLUME (cu.ft.)	ESTIMATED TOTAL VOLUME (cu.ft.)	MEAN RESIDUAL POOL VOL (cu.ft.)	MEAN SHELTER RATING
1	1	RIFFLE	7	44	44	1	4.2	0.1	37	37	4	4	0	0
2	2	FLATWATER	13	52	103	2	5.4	0.5	185	371	107	215	0	0
5	3	POOL	33	43	213	3	11.7	1.0	470	2352	517	2584	906	52
6	0	DRY	40	569	3411	54	0.0	0.0	0	0	0	0	0	0
1	0	NOT SURVE	7	2492	2492	40	0.0	0.0	0	0	0	0	0	0

TOTAL UNITS	TOTAL UNITS	TOTAL LENGTH (ft.)	TOTAL AREA (sq. ft.)	TOTAL VOL. (cu. ft.)
15	6	6263	2760	2802

Weeks Creek

Drainage: Mark West Creek, Russian River

Table 2 - SUMMARY OF HABITAT TYPES AND MEASURED PARAMETERS

Survey Dates: 07/31/97

Confluence Location: QUAD: Mark West Sprgs LEGAL DESCRIPTION: T8NR7WS29 LATITUDE: 38°30'32" LONGITUDE: 122°38'53"

HABITAT UNITS #	UNITS FULLY MEASURED	HABITAT TYPE	HABITAT OCCURRENCE %	MEAN LENGTH ft.	TOTAL LENGTH ft.	TOTAL LENGTH %	MEAN WIDTH ft.	MEAN DEPTH ft.	MAXIMUM DEPTH ft.	MEAN AREA sq.ft.	TOTAL AREA EST. sq.ft.	MEAN VOLUME cu.ft.	TOTAL VOLUME EST. cu.ft.	MEAN RESIDUAL POOL VOL cu.ft.	MEAN SHELTER RATING	MEAN CANOPY %
1	1	LGR	7	44	44	1	4	0.1	0.2	37	37	4	4	0	0	90
1	1	GLD	7	55	55	1	5	0.7	1.3	281	281	197	197	0	0	35
1	1	RUN	7	48	48	1	5	0.2	0.4	89	89	18	18	0	0	90
3	1	LSR	20	51	152	2	13	1.1	3.8	625	1876	750	2250	906	53	75
1	1	LSBk	7	22	22	0	6	0.7	1.1	127	127	89	89	0	2	15
1	1	LSBo	7	40	40	1	15	0.7	1.6	349	349	245	245	0	100	95
6	0	DRY	40	569	3411	54	0	0.0	0.0	0	0	0	0	0	0	90
1	0	NS	7	2492	2492	40	0	0.0	0.0	0	0	0	0	0	0	0

TOTAL UNITS	TOTAL UNITS	LENGTH (ft.)	AREA (sq.ft)	TOTAL VOL. (cu.ft)
15	6	6263	2760	2802

Weeks Creek

Drainage: Mark West Creek, Russian River

Table 3 - SUMMARY OF POOL TYPES

Survey Dates: 07/31/97

Confluence Location: QUAD: Mark West Sprgs LEGAL DESCRIPTION: T8NR7WS29 LATITUDE: 38°30'32" LONGITUDE: 122°38'53"

HABITAT UNITS	UNITS FULLY MEASURED	HABITAT TYPE	HABITAT PERCENT OCCURRENCE	MEAN LENGTH (ft.)	TOTAL LENGTH (ft.)	PERCENT TOTAL LENGTH	MEAN WIDTH (ft.)	MEAN DEPTH (ft.)	MEAN AREA (sq.ft.)	TOTAL AREA EST. (sq.ft.)	MEAN VOLUME (cu.ft.)	TOTAL VOLUME EST. (cu.ft.)	MEAN RESIDUAL POOL VOL. (cu.ft.)	MEAN SHELTER RATING
5	3	SCOUR	100	43	213	100	11.7	1.0	470	2352	517	2584	906	52

TOTAL UNITS	TOTAL UNITS	TOTAL LENGTH (ft.)	TOTAL AREA (sq.ft.)	TOTAL VOL. (cu.ft.)
5	3	213	2352	2584

Weeks Creek

Drainage: Mark West Creek, Russian River

Table 4 - SUMMARY OF MAXIMUM POOL DEPTHS BY POOL HABITAT TYPES

Survey Dates: 07/31/97

Confluence Location: QUAD: Mark West Sprgs LEGAL DESCRIPTION: T8NR7WS29 LATITUDE: 38°30'32" LONGITUDE: 122°38'53"

UNITS MAX DPTH MEASURED	HABITAT TYPE	HABITAT PERCENT OCCURRENCE	<1 FOOT MAXIMUM DEPTH	<1 FOOT PERCENT OCCURRENCE	1-<2 FT. MAXIMUM DEPTH	1-<2 FOOT PERCENT OCCURRENCE	2-<3 FT. MAXIMUM DEPTH	2-<3 FOOT PERCENT OCCURRENCE	3-<4 FT. MAXIMUM DEPTH	3-<4 FOOT PERCENT OCCURRENCE	>=4 FEET MAXIMUM DEPTH	>=4 FEET PERCENT OCCURRENCE
3	LSR	60	0	0	2	67	0	0	1	33	0	0
1	LSBk	20	0	0	1	100	0	0	0	0	0	0
1	LSBo	20	0	0	1	100	0	0	0	0	0	0
TOTAL UNITS 5												

Weeks Creek Drainage: Mark West Creek, Russian River

Table 5 - Summary of Shelter by Habitat Type Survey Dates: 07/31/97

Confluence Location: QUAD: Mark West Sprgs LEGAL DESCRIPTION: T8NR7WS29 LATITUDE: 38°30'32" LONGITUDE: 122°38'53"

UNITS MEASURED	UNITS SHELTER MEASURED	HABITAT TYPE	% TOTAL UNDERCUT BANKS	% TOTAL SWD	% TOTAL LWD	% TOTAL ROOT MASS	% TOTAL TERR. VEGETATION	% TOTAL AQUATIC VEGETATION	% TOTAL WHITE WATER	% TOTAL BOULDERS	% TOTAL BEDROCK LEDGES
1	1	LGR	0	0	0	0	0	0	0	0	0
1	0	GLD	0	0	0	0	0	0	0	0	0
1	1	RUN	0	0	0	0	0	0	0	0	0
3	3	LSR	14	4	14	45	0	7	0	15	0
1	1	LSBk	0	0	0	0	0	0	0	0	100
1	1	LSBo	0	0	0	0	0	10	0	90	0
6	3	DRY	0	0	0	0	0	0	0	0	0
1	0	NS	0	0	0	0	0	0	0	0	0
ALL HABITAT TYPES 15	10		9	2	9	28	0	8	0	43	0
POOLS ONLY 5	5		9	2	9	28	0	8	0	43	0

Weeks Creek

Drainage: Mark West Creek, Russian River

Table 6 - SUMMARY OF DOMINANT SUBSTRATES BY HABITAT TYPE

Survey Dates: 07/31/97

Confluence Location: QUAD: Mark West Sprgs LEGAL DESCRIPTION: T8NR7WS29 LATITUDE: 38°30'32" LONGITUDE: 122°38'53"

TOTAL HABITAT UNITS	UNITS SUBSTRATE MEASURED	HABITAT TYPE	% TOTAL SILT/CLAY DOMINANT	% TOTAL SAND DOMINANT	% TOTAL GRAVEL DOMINANT	% TOTAL SM COBBLE DOMINANT	% TOTAL LG COBBLE DOMINANT	% TOTAL BOULDER DOMINANT	% TOTAL BEDROCK DOMINANT
1	1	LGR	0	0	0	100	0	0	0
1	1	GLD	0	0	100	0	0	0	0
1	1	RUN	0	0	0	100	0	0	0
1	1	LSR	0	100	0	0	0	0	0
1	1	LSBk	0	0	100	0	0	0	0
1	1	LSBo	0	0	0	0	100	0	0
1	1	DRY	0	0	0	100	0	0	0
0	0	NS	0	0	0	0	0	0	0

Weeks Creek

APPENDIX A. Summary of Mean Percent Vegetative Cover for Entire Stream

Mean Percent Canopy	Mean Percent Evergreen	Mean Percent Deciduous	Mean Right bank % Cover	Mean Left Bank % Cover
72.50	42.50	57.50	87.86	79.29

APPENDIX B.

Mean Percentage of Dominant Substrate

Dominant Class of Substrate	Number Units Right Bank	Number Units Left Bank	Percent Total Units
Bedrock	1	0	7.14
Boulder	0	0	0
Cobble/Gravel	3	5	57.14
Silt/clay	3	2	35.71

Mean Percentage of Dominant Vegetation

Dominant Class of Vegetation	Number Units Right Bank	Number Units Left Bank	Percent Total Units
Grass	1	0	7.14
Brush	6	2	57.14
Deciduous Trees	0	3	21.43
Evergreen Trees	0	2	14.29
No Vegetation	0	0	0

APPENDIX C. FISH HABITAT INVENTORY DATA SUMMARY

STREAM NAME: Weeks Creek
SAMPLE DATES:
SURVEY LENGTH:
MAIN CHANNEL: 6263 ft. SIDE CHANNEL: 0 ft.
LOCATION OF STREAM MOUTH:
USGS Quad Map: Mark West Sprgs Latitude: 38°30'32"
Legal Description: T8NR7WS29 Longitude: 122°38'53"

SUMMARY OF FISH HABITAT ELEMENTS BY STREAM REACH

STREAM REACH 1 (Units 1-15)

Channel Type: F4	Mean Canopy Density: 73%
Main Channel Length: 6263 ft.	Evergreen Component: 43%
Side Channel Length: 0 ft.	Deciduous Component: 58%
Riffle/Flatwater Mean Width: 5.0 ft.	Pools by Stream Length: 3%
Pool Mean Depth: 1.0 ft.	Pools >=2 ft. Deep: 20%
Base Flow: 0.0 cfs	Pools >=3 ft. Deep: 20%
Water: - 60°F Air: 75-82°F	Mean Pool Shelter Rtn: 52
Dom. Bank Veg.: Brush	Dom. Shelter: Boulders
Bank Vegetative Cover: 84%	Occurrence of LOD: 20%
Dom. Bank Substrate: Cobble/Gravel	Dry Channel: 3411 ft.

Embeddness Value: 1. 0% 2. 0% 3. 60% 4. 40% 5. 0%