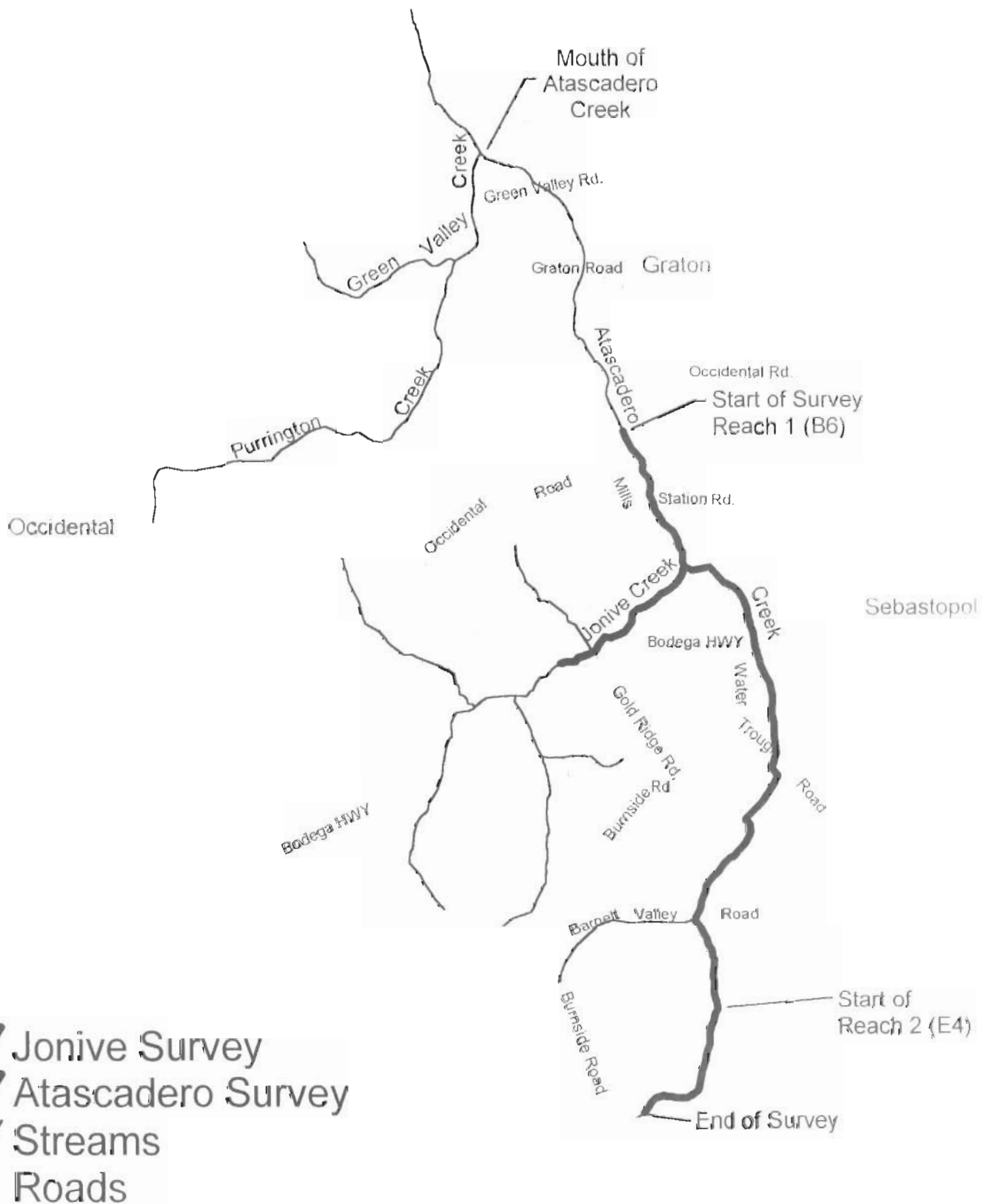


Atascadero Creek Watershed



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

| Mean Percent Canopy | Mean Percent Conifer | Mean Percent Deciduous | Mean Right bank % Cover | Mean Left Bank % Cover |
|---------------------|----------------------|------------------------|-------------------------|------------------------|
| 72.33 | 90.38 | 9.62 | 56.29 | 53.71 |

APPENDIX B.

Mean Percentage of Dominant Substrate

| Dominant Class of Substrate | Number Units Right Bank | Number Units Left Bank | Total Mean Percent |
|-----------------------------|-------------------------|------------------------|--------------------|
| Bedrock | 2 | 3 | 8.06 |
| Boulder | 0 | 0 | 0 |
| Cobble/Gravel | 0 | 1 | 1.61 |
| Silt/clay | 29 | 27 | 90.32 |

Mean Percentage of Dominant Vegetation

| Dominant Class of Vegetation | Number Units Right Bank | Number Units Left Bank | Total Mean Percent |
|------------------------------|-------------------------|------------------------|--------------------|
| Grass | 0 | 0 | 0 |
| Brush | 6 | 5 | 17.74 |
| Decid. Trees | 4 | 4 | 12.90 |
| Conif. Trees | 19 | 20 | 62.90 |
| No Vegetation | 2 | 2 | 6.45 |

APPENDIX C. FISH HABITAT INVENTORY DATA SUMMARY

STREAM NAME: Atascadero Creek
 SAMPLE DATES: 07/14/95 to 07/21/95
 STREAM LENGTH: 14516 ft.
 LOCATION OF STREAM MOUTH:

USGS Quad Map: CMP MK/SEB
 Legal Description: T07NR09WS18

Latitude: 38°26'55"
 Longitude: 122°53'9"

SUMMARY OF FISH HABITAT ELEMENTS BY STREAM REACH

STREAM REACH 1

| | |
|--|----------------------------------|
| Channel Type: B6 | Canopy Density: 74% |
| Channel Length: 13253 ft. | Coniferous Component: 85% |
| Riffle/Flatwater Mean Width: 10 ft. | Deciduous Component: 15% |
| Total Pool Mean Depth: 1.4 ft. | Pools by Stream Length: 9% |
| Base Flow: 0.0 cfs | Pools >=3 ft.deep: 33% |
| Water: 61 - 65 °F Air: 59 - 85 °F | Mean Pool Shelter Rtn: 43 |
| Dom. Bank Veg.: Coniferous Trees | Dom. Shelter: Small Woody Debris |
| Vegetative Cover: 59% | Occurrence of LOD: 55% |
| Dom. Bank Substrate: Silt/Clay/Sand | Dry Channel: 0 ft. |
| Embeddness Value: 1. 0% 2. 0% 3. 6% 4. 94% | |

STREAM REACH 2

| | |
|--|------------------------------|
| Channel Type: B4 | Canopy Density: 69% |
| Channel Length: 1263 ft. | Coniferous Component: 100% |
| Riffle/Flatwater Mean Width: 4 ft. | Deciduous Component: 0% |
| Total Pool Mean Depth: 0.7 ft. | Pools by Stream Length: 28% |
| Base Flow: 0.0 cfs | Pools >=3 ft.deep: 0% |
| Water: 60 - 62 °F Air: 61 - 65 °F | Mean Pool Shelter Rtn: 46 |
| Dom. Bank Veg.: Coniferous Trees | Dom. Shelter: Undercut Banks |
| Vegetative Cover: 48% | Occurrence of LOD: 50% |
| Dom. Bank Substrate: Silt/Clay/Sand | Dry Channel: 0 ft. |
| Embeddness Value: 1. 0% 2. 13% 3. 63% 4. 25% | |

Atascadero Creek

Drainage: Green Valley Creek

Table 1 - SUMMARY OF RIFFLE, FLATWATER, AND POOL HABITAT TYPES Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| HABITAT UNITS | HABITAT FULLY MEASURED | HABITAT TYPE | HABITAT PERCENT OCCURRENCE | MEAN LENGTH (ft.) | TOTAL LENGTH (ft.) | MEAN WIDTH (ft.) | MEAN DEPTH (ft.) | MEAN AREA (sq.ft.) | ESTIMATED TOTAL AREA (sq.ft.) | MEAN ESTIMATED VOLUME (cu.ft.) | TOTAL ESTIMATED VOLUME (cu.ft.) | MEAN RESIDUAL POOL VOL (cu.ft.) | MEAN SHELTER RATING |
|---------------|------------------------|--------------|----------------------------|-------------------|--------------------|------------------|------------------|--------------------|-------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------|
| 23 | 0 | RIFFLE | 19 | 43 | 986 | 7 | 0.4 | 120 | 2759 | 52 | 1201 | 0 | 0 |
| 45 | 0 | FLATWATER | 36 | 266 | 11953 | 82 | 1.1 | 8242 | 370882 | 1479 | 66558 | 0 | 0 |
| 56 | 14 | POOL | 45 | 28 | 1577 | 11 | 1.2 | 227 | 12705 | 227 | 12688 | 135 | 44 |
| TOTAL UNITS | 14 | | | | TOTAL LENGTH (ft.) | | | | TOTAL AREA (sq. ft.) | | TOTAL VOL. (cu. ft.) | | |
| 24 | | | | | 14516 | | | | 386347 | | 80447 | | |

Table 2 - SUMMARY OF HABITAT TYPES AND MEASURED PARAMETERS

Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| HABITAT UNITS | HABITAT FULLY MEASURED | HABITAT TYPE | HABITAT OCCURRENCE | MEAN LENGTH | MEAN WIDTH | MEAN DEPTH | MEAN MAXIMUM DEPTH | MEAN AREA | TOTAL LENGTH | TOTAL WIDTH | TOTAL DEPTH | MEAN AREA | TOTAL AREA | MEAN VOLUME | TOTAL VOLUME | MEAN RESIDUAL | TOTAL RESIDUAL | MEAN SHELTER | TOTAL SHELTER | MEAN CANOPY | TOTAL CANOPY |
|---------------|------------------------|--------------|--------------------|-------------|------------|------------|--------------------|-----------|--------------|-------------|-------------|-----------|------------|-------------|--------------|---------------|----------------|----------------------|---------------|-------------|--------------|
| # | | | % | ft. | ft. | ft. | ft. | sq.ft. | ft. | ft. | ft. | sq.ft. | sq.ft. | cu.ft. | cu.ft. | cu.ft. | cu.ft. | EST. POOL VOL RATING | cu.ft. | % | % |
| 23 | 0 | LGR | 19 | 43 | 986 | 7 | 0.4 | 120 | 2759 | 52 | 1201 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| 29 | 0 | GLD | 23 | 385 | 11164 | 77 | 1.4 | 13057 | 378646 | 2482 | 71989 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| 15 | 0 | RUN | 12 | 51 | 758 | 5 | 0.5 | 217 | 3254 | 136 | 2041 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| 1 | 0 | SRN | 1 | 31 | 31 | 0 | 0.7 | 217 | 217 | 152 | 152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 2 | 0 | TRP | 2 | 21 | 42 | 0 | 0.7 | 128 | 256 | 90 | 179 | 64 | 190 | 64 | 190 | 40 | 40 | 40 | 40 | 40 | 80 |
| 27 | 6 | MCP | 22 | 33 | 880 | 6 | 1.3 | 114 | 3087 | 168 | 4534 | 121 | 40 | 60 | 100 | 60 | 292 | 60 | 60 | 60 | 63 |
| 1 | 1 | STP | 1 | 54 | 54 | 0 | 1.0 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 292 | 342 | 20 | 20 | 20 | 80 |
| 2 | 0 | CRP | 2 | 28 | 56 | 0 | 2.0 | 342 | 683 | 683 | 1366 | 342 | 683 | 342 | 683 | 20 | 20 | 20 | 20 | 20 | 80 |
| 2 | 1 | LSL | 2 | 16 | 31 | 0 | 1.3 | 187 | 374 | 243 | 486 | 94 | 13 | 100 | 100 | 94 | 13 | 13 | 13 | 100 | |
| 10 | 4 | LSR | 8 | 22 | 218 | 2 | 0.8 | 312 | 3116 | 161 | 1608 | 85 | 54 | 79 | 79 | 85 | 54 | 54 | 54 | 79 | |
| 2 | 0 | LSBK | 2 | 32 | 63 | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 1 | PLP | 5 | 28 | 166 | 1 | 1.8 | 198 | 1188 | 297 | 1782 | 238 | 25 | 70 | 70 | 238 | 25 | 25 | 25 | 70 | |
| 4 | 1 | DPL | 3 | 17 | 67 | 0 | 1.0 | 300 | 1200 | 300 | 1200 | 0 | 0 | 75 | 75 | 0 | 0 | 0 | 0 | 75 | |

| TOTAL UNITS | TOTAL UNITS | LENGTH (ft.) | AREA (sq.ft) | TOTAL VOL. (cu.ft) |
|-------------|-------------|--------------|--------------|--------------------|
| 124 | 14 | 14516 | 395266 | 87024 |

Atascadero Creek

Drainage: Green Valley Creek

Table 3 - SUMMARY OF POOL TYPES

Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09NS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| HABITAT UNITS | HABITAT FULLY MEASURED | HABITAT TYPE | HABITAT PERCENT OCCURRENCE | MEAN LENGTH (ft.) | TOTAL LENGTH (ft.) | 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 |
|---------------|------------------------|--------------|----------------------------|--------------------|--------------------|------------------|------------------|---------------------|--------------------------|----------------------|----------------------------|----------------------------------|---------------------|
| 30 | 7 | MAIN | 54 | 33 | 975 | 62 | 1.2 | 157 | 4714 | 195 | 5837 | 134 | 48 |
| 22 | 6 | SCOUR | 39 | 24 | 535 | 34 | 1.2 | 288 | 6347 | 253 | 5575 | 137 | 33 |
| 4 | 1 | BACKWATER | 7 | 17 | 67 | 4 | 1.0 | 300 | 1200 | 300 | 1200 | 0 | 75 |
| TOTAL UNITS | 14 | | | TOTAL LENGTH (ft.) | 1577 | | | TOTAL AREA (sq.ft.) | 12261 | | TOTAL VOL. (cu.ft.) | 12612 | |

Atascadero Creek

Drainage: Green Valley Creek

Table 4 - SUMMARY OF MAXIMUM POOL DEPTHS BY POOL HABITAT TYPES Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| UNITS MEASURED | HABITAT TYPE | <1 FOOT | | 1-<2 FT. | | 2-<3 FT. | | 3-<4 FT. | | >=4 FEET | | |
|----------------|--------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|----|
| | | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH | PERCENT OCCURRENCE | MAXIMUM DEPTH | |
| 2 | TRP | 4 | 1 | 50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 27 | MCP | 48 | 7 | 26 | 7 | 5 | 5 | 19 | 4 | 15 | 4 | |
| 1 | STP | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | CRP | 4 | 0 | 0 | 1 | 1 | 1 | 50 | 0 | 0 | 0 | |
| 2 | LSL | 4 | 0 | 0 | 1 | 1 | 1 | 50 | 0 | 0 | 0 | |
| 10 | LSR | 18 | 1 | 10 | 5 | 4 | 4 | 40 | 0 | 0 | 0 | |
| 2 | LSBL | 4 | 1 | 50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | PLP | 11 | 1 | 17 | 1 | 1 | 1 | 17 | 1 | 17 | 2 | |
| 4 | DPL | 7 | 0 | 0 | 0 | 2 | 2 | 50 | 1 | 25 | 1 | |
| TOTAL UNITS | | | | | | | | | | | | 33 |
| | | | | | | | | | | | | 25 |

Atascadero Creek

Drainage: Green Valley Creek

Table 6 - SUMMARY OF DOMINANT SUBSTRATES BY HABITAT TYPE

Survey Dates: 07/14/95 to 07/21/95

Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09WS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'9"

| TOTAL HABITAT UNITS MEASURED | UNITS FULLY | HABITAT TYPE | % TOTAL | | % TOTAL | | % TOTAL | | % TOTAL | | % TOTAL | |
|------------------------------|-------------|--------------|--------------------|---------------|-----------------|--------------------|--------------------|------------------|------------------|---|---------|---|
| | | | SILT/CLAY DOMINANT | SAND DOMINANT | GRAVEL DOMINANT | SM COBBLE DOMINANT | LG COBBLE DOMINANT | BOULDER DOMINANT | BEDROCK DOMINANT | | | |
| 0 | 0 | LGR | 33 | 0 | 33 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 2 | 0 | GLD | 33 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | RUN | 33 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 33 | 0 |
| 0 | 0 | SRN | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | TRP | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 6 | MCP | 25 | 13 | 50 | 0 | 0 | 0 | 0 | 0 | 13 | 0 |
| 1 | 1 | STP | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | CRP | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | LSL | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | LSR | 20 | 60 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | LSBK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | PLP | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | DPL | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 10 - Summary of Shelter Type Areas by Habitat Type

Survey Dates: 07/14/95 to 07/21/95

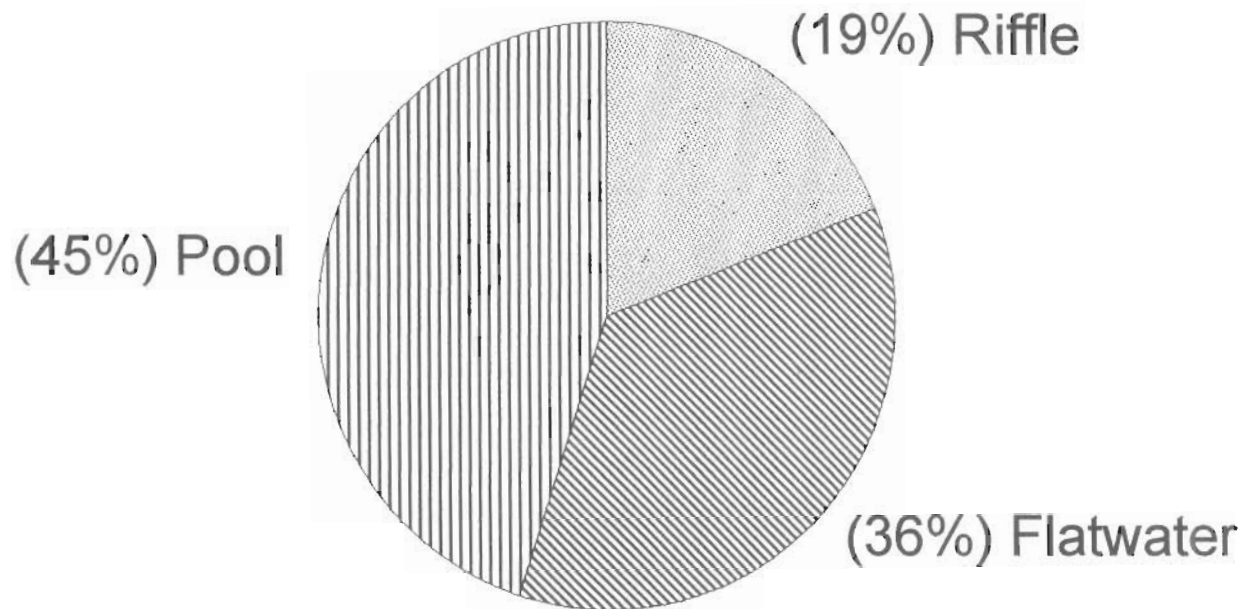
Confluence Location: QUAD: CMP MK/SEB LEGAL DESCRIPTION: T07NR09MS18 LATITUDE: 38°26'55" LONGITUDE: 122°53'19"

| UNITS MEASURED | HABITAT FULLY MEASURED | SQ. FT. UNDERCUT BANKS | SQ. FT. SMD | SQ. FT. LWD | SQ. FT. ROOT MASS VEGETATION | SQ. FT. TERR. VEGETATION | SQ. FT. AQUATIC VEGETATION | SQ. FT. WHITE WATER | SQ. FT. BOULDERS | SQ. FT. BEDROCK LEDGES |
|----------------|------------------------|------------------------|-------------|-------------|------------------------------|--------------------------|----------------------------|---------------------|------------------|------------------------|
| 23 | 0 LGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 GLD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 RUN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 SRN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 TRP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 6 MCP | 140 | 62 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 STP | 0 | 58 | 0 | 0 | 10 | 0 | 0 | 29 | 0 |
| 2 | 0 CRP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 1 LSL | 0 | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 4 LSR | 17 | 89 | 4 | 66 | 89 | 0 | 0 | 0 | 0 |
| 2 | 0 LSBK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 1 PLP | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 1 DPL | 0 | 60 | 90 | 0 | 0 | 0 | 0 | 0 | 0 |
| 124 | | 157 | 300 | 116 | 66 | 99 | 0 | 0 | 29 | 0 |

| | | | | | | | | | | |
|----|--|-----|-----|-----|----|----|---|---|----|---|
| 56 | | 157 | 300 | 116 | 66 | 99 | 0 | 0 | 29 | 0 |
|----|--|-----|-----|-----|----|----|---|---|----|---|

Atascadero Creek

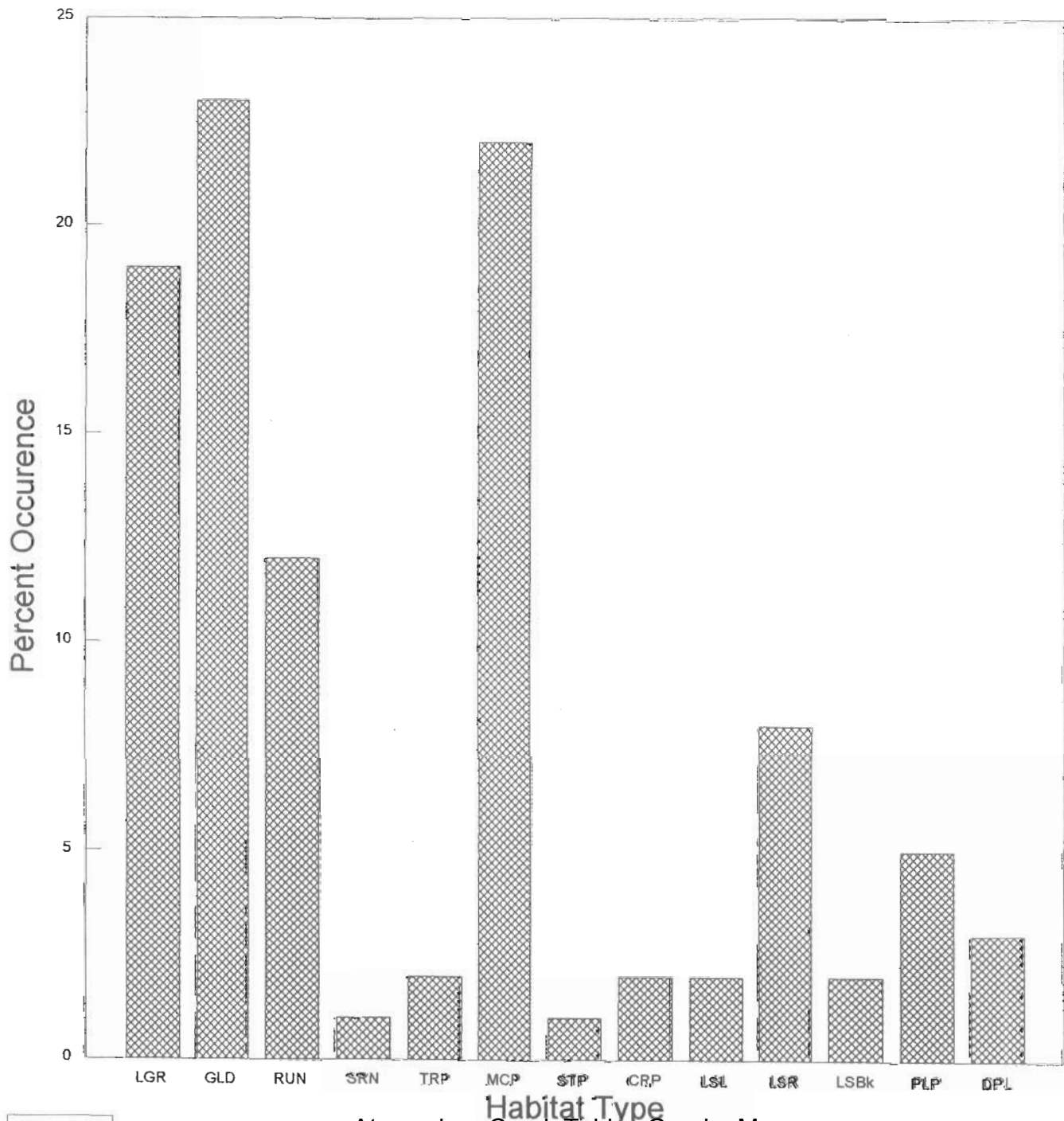
Level II Habitat Types by % Occurrence



Graph 1

Atascadero Creek

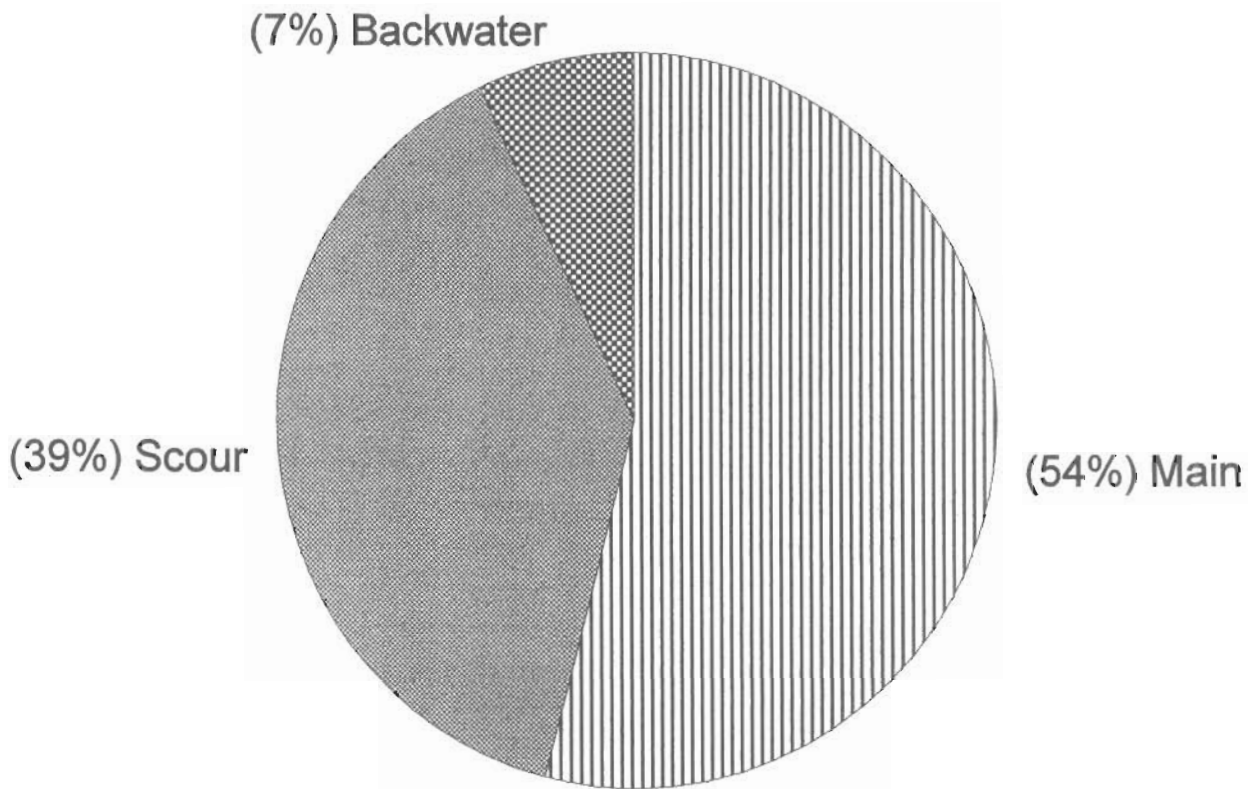
Level IV Habitat Types by Percent Occurrence



Graph 2

Atascadero Creek

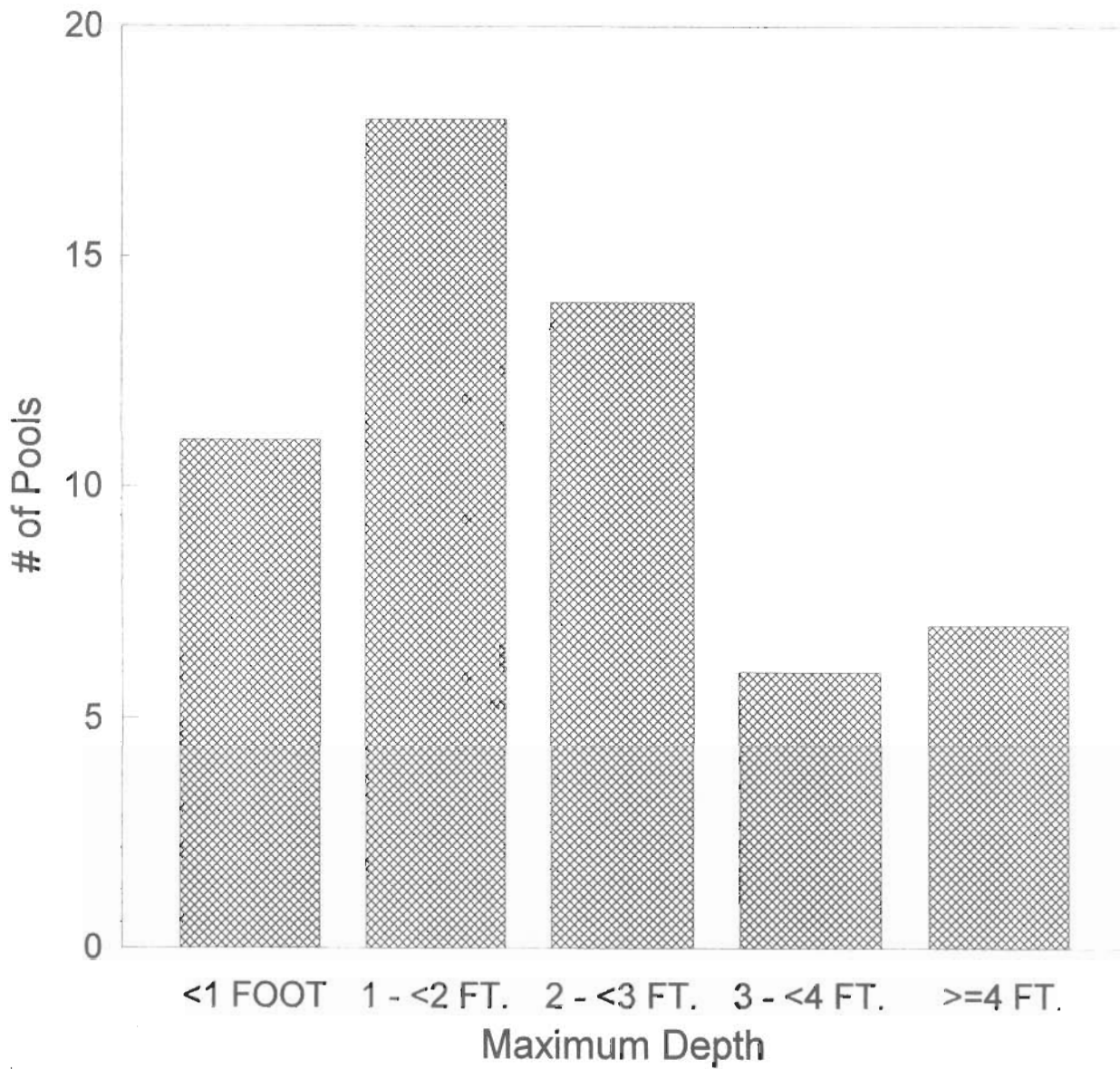
Pool Habitat Types by % Occurrence



Graph 3

Atascadero Creek

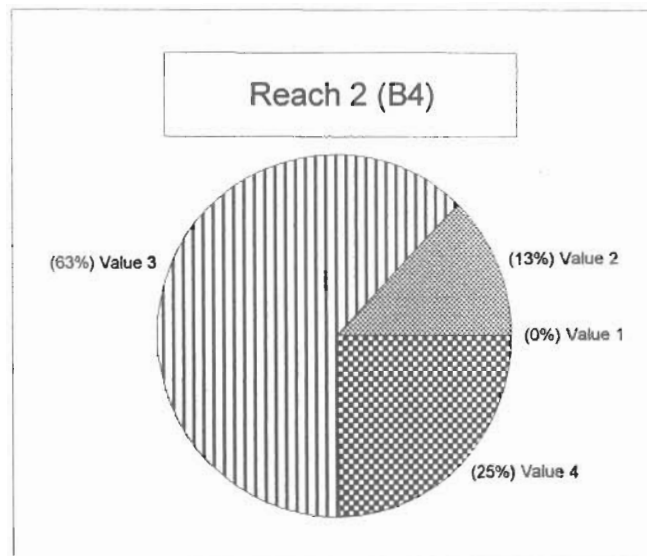
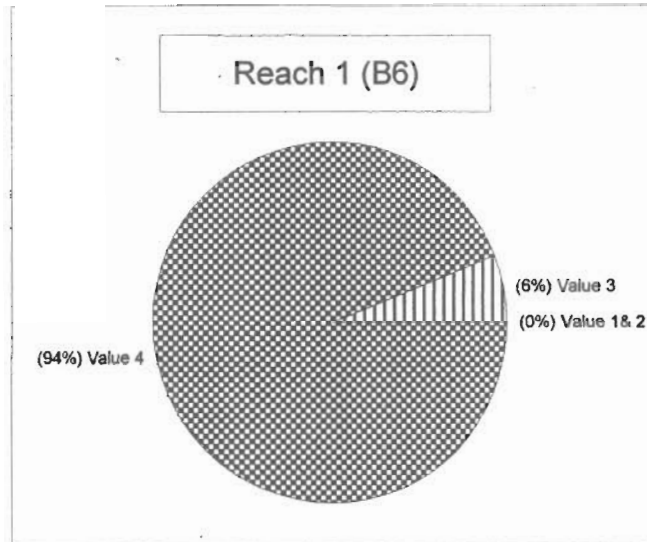
Maximum Depth in Pools



Graph 4

Atascadero Creek

Percent Embeddedness by Reach

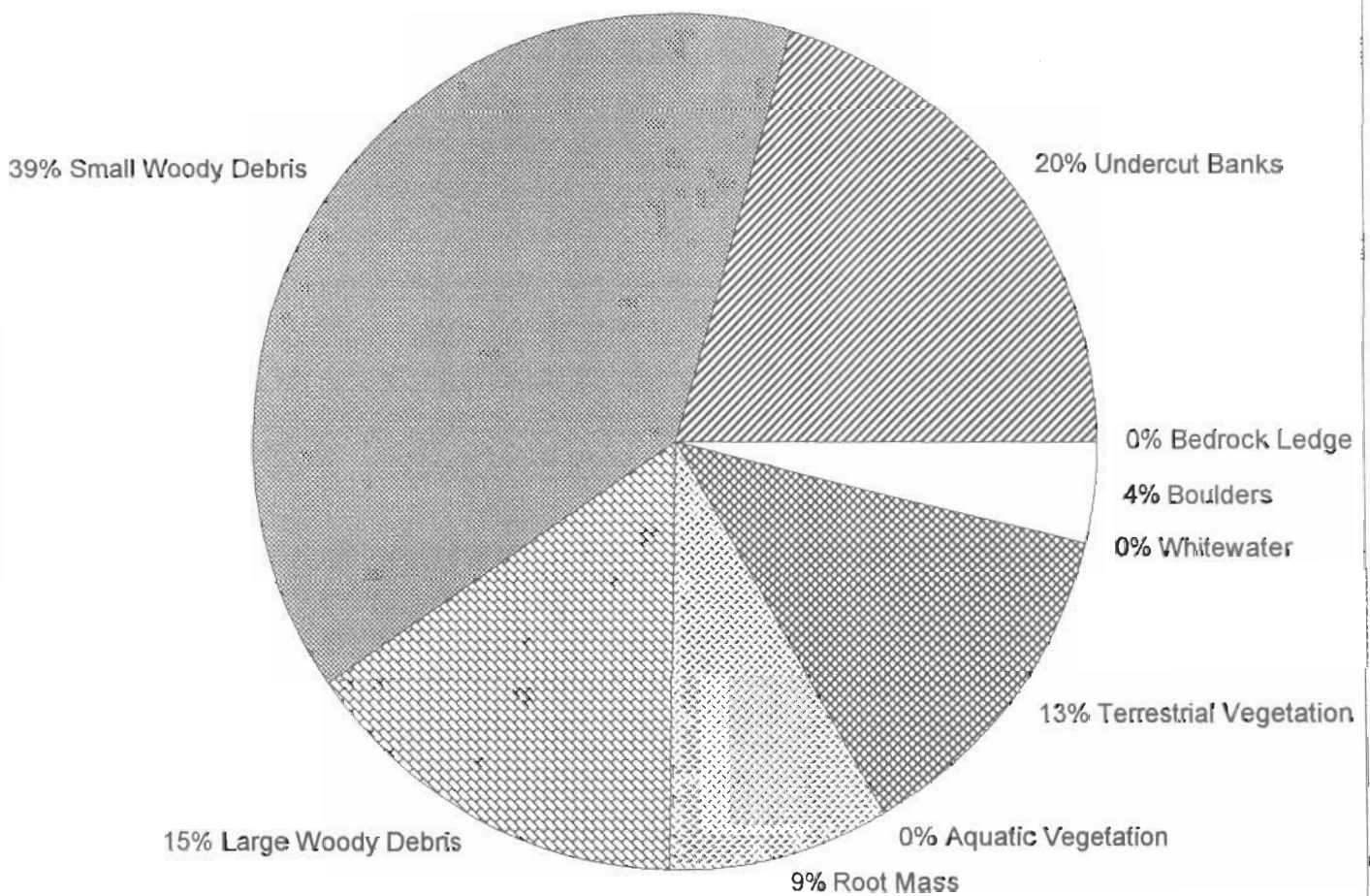


Value 1 = <25% Value 2 = 25-50% Value 3 = 51-75% Value 4 = >76%

Graph 5

Atascadero Creek

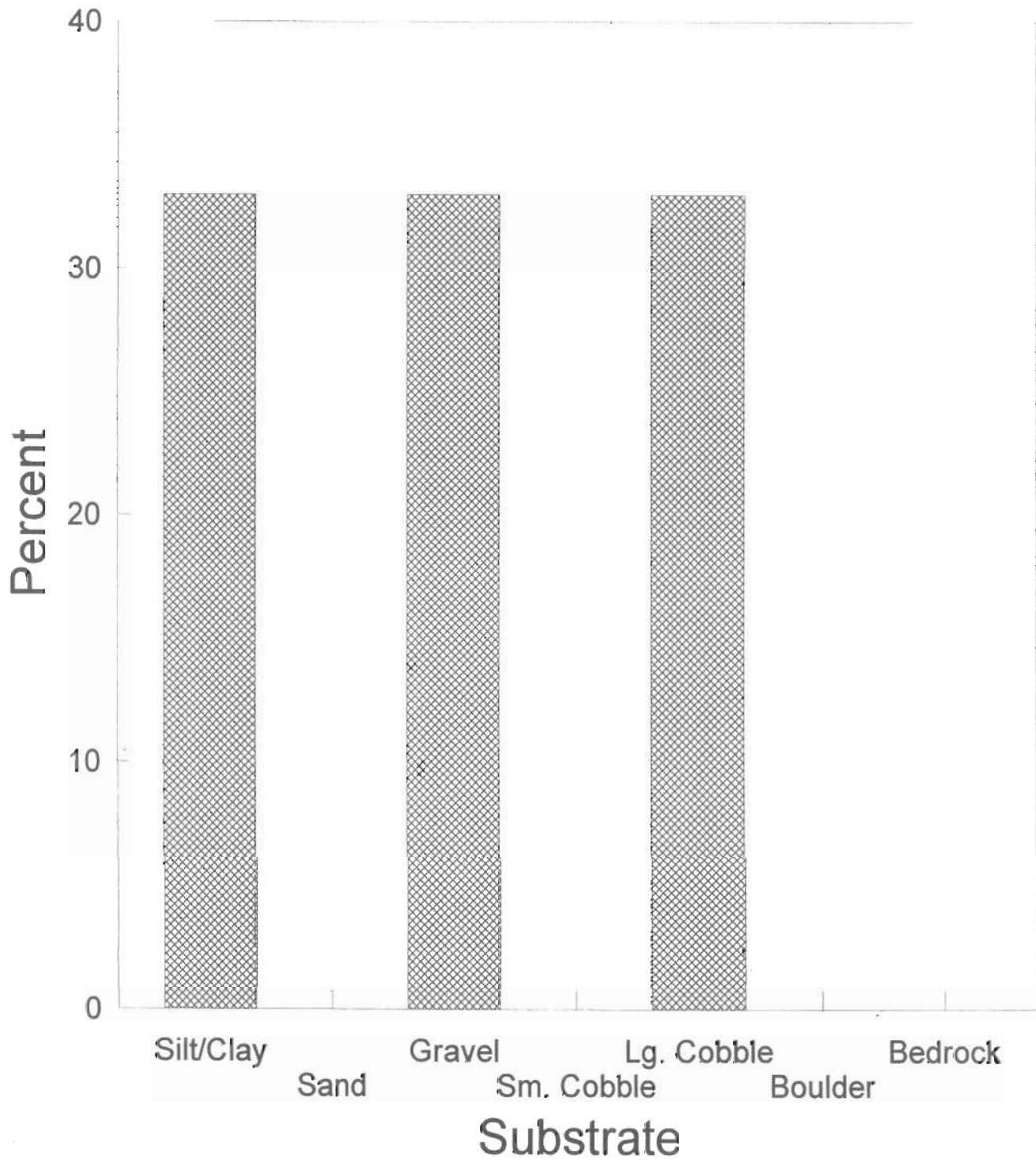
Percent Cover Types in Pools



Graph 6

Atascadero Creek

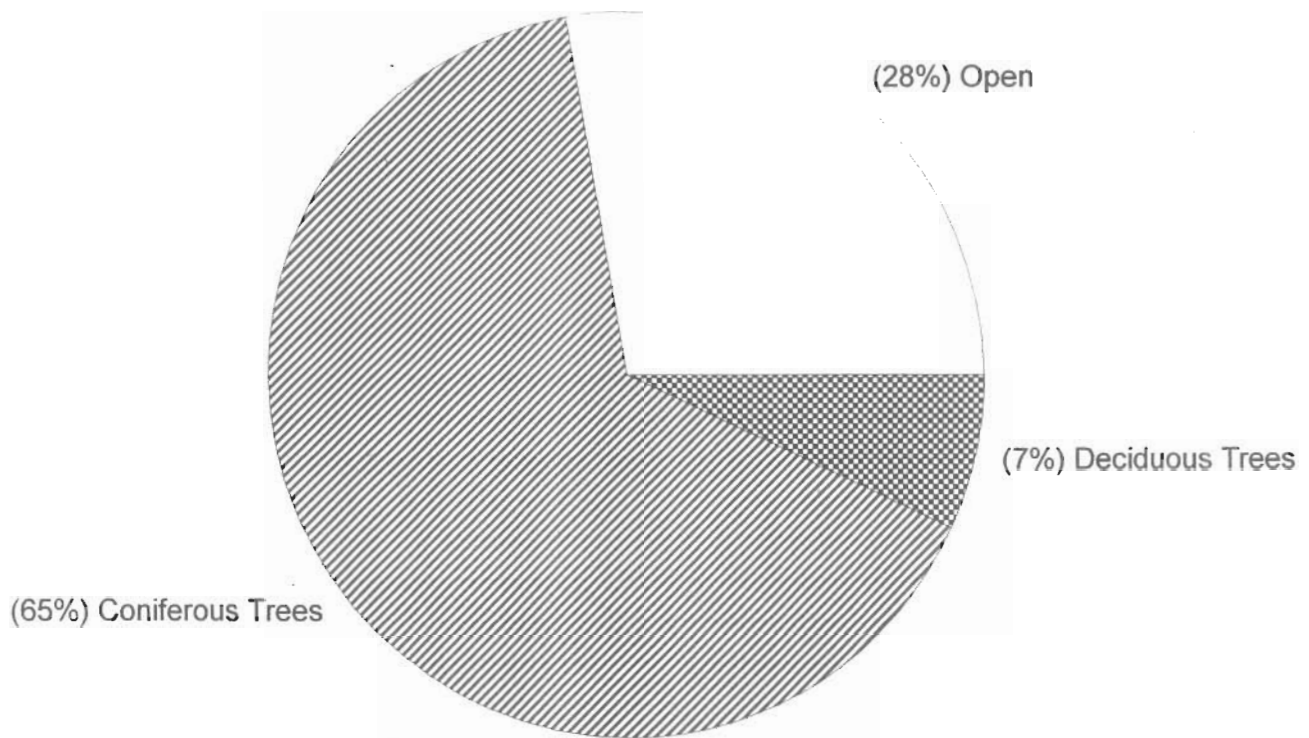
Substrate Composition in Low Gradient Riffles



Graph 7

Atascadero Creek

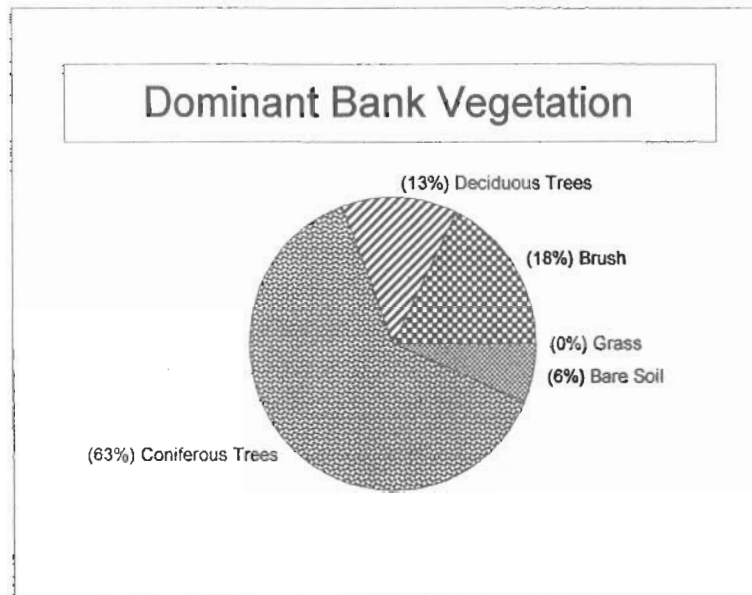
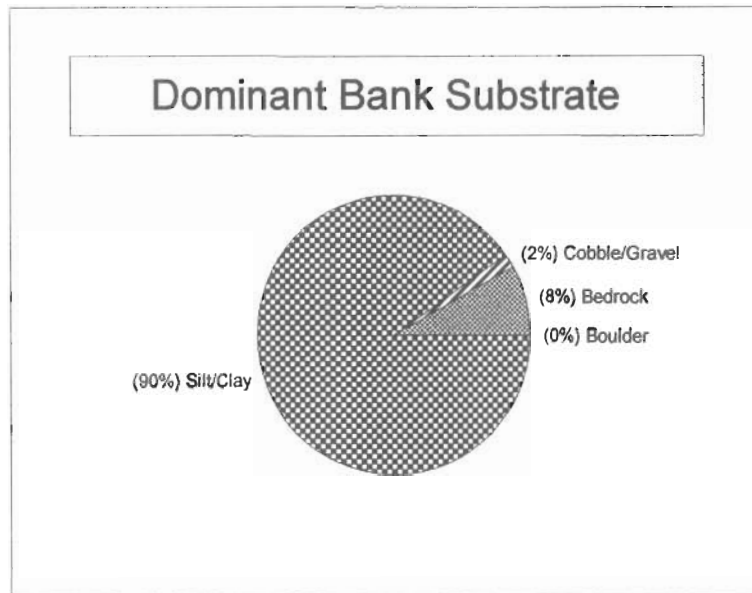
Mean Percent Canopy



Graph 8

Atascadero Creek

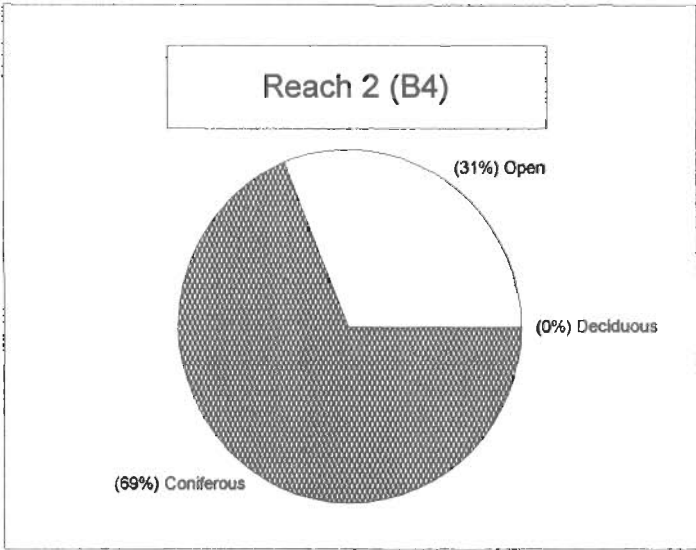
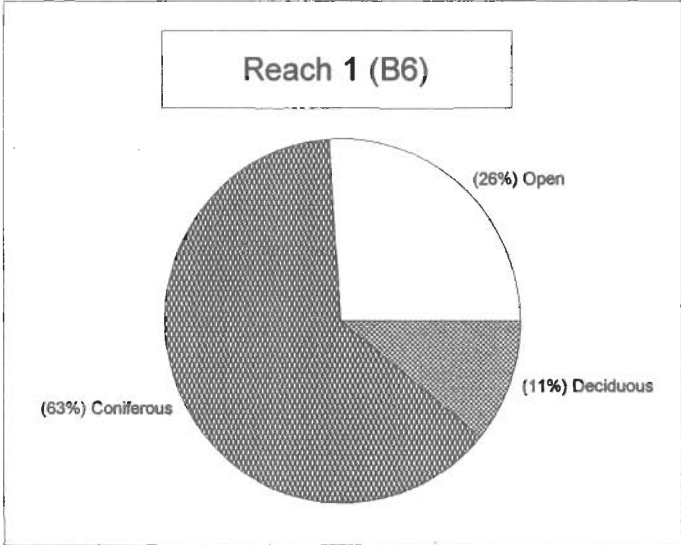
Percent Bank Composition



Graph 9

Atascadero Creek

Percent Canopy by Reach



Graph 11

Jonive and Atascadero Creek Tempentor Summary
 Mean Highs and Lows by Month

