**Appendix A: Summary of CMP Data**

**Table A-1. Mean turbidity quartile by site group and season. All CMP data were downloaded from CEDEN. Samples from tidally influenced sites were removed from the dataset. The remaining samples (n = 5098) came from 47 sites, comprising the Gabilan group (N = 10), the reference group (N = 12), and 25 other CMP sites. Quartiles (25th, 50th, and 75th percentiles) and the interquartile range (IQR) were computed for each site-season combination. A top-level summary was created by averaging the quartiles across site.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Mean Turb. (NTU) Quart.** | | | |
| **Site Group** | **Season** | **N** | **25th** | **50th** | **75th** | **IQR** |
| Gabilan | All | 10 | 65 | 161 | 482 | 418 |
| Gabilan | Dry | 10 | 52 | 94 | 307 | 255 |
| Gabilan | Wet | 10 | 153 | 256 | 636 | 483 |
| All | All | 47 | 26 | 63 | 210 | 184 |
| All | Dry | 46 | 20 | 39 | 118 | 97 |
| All | Wet | 47 | 49 | 111 | 289 | 240 |
| All w/o Gabilan | All | 37 | 16 | 36 | 137 | 121 |
| All w/o Gabilan | Dry | 36 | 12 | 23 | 65 | 53 |
| All w/o Gabilan | Wet | 37 | 21 | 72 | 195 | 174 |
| Reference | All | 12 | 5 | 11 | 27 | 22 |
| Reference | Dry | 12 | 4 | 8 | 17 | 13 |
| Reference | Wet | 12 | 7 | 15 | 37 | 30 |

**Table A-2. Turbidity quartiles and the IQR by site and season.**

|  |  |  |  | **Turb. (NTU) Percentiles** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Site Group** | **Site** | **Season** | **n** | **25th** | **50th** | **75th** | **IQR** |
| Other | 305BRS | All | 30 | 10 | 18 | 46 | 36 |
| Other | 305BRS | Dry | 13 | 14 | 19 | 44 | 30 |
| Other | 305BRS | Wet | 17 | 10 | 18 | 46 | 37 |
| Reference | 305CAN | All | 109 | 2 | 6 | 17 | 15 |
| Reference | 305CAN | Dry | 28 | 2 | 4 | 14 | 13 |
| Reference | 305CAN | Wet | 81 | 3 | 6 | 19 | 16 |
| Reference | 305CHI | All | 165 | 9 | 22 | 50 | 41 |
| Reference | 305CHI | Dry | 67 | 8 | 20 | 45 | 37 |
| Reference | 305CHI | Wet | 98 | 11 | 26 | 55 | 44 |
| Reference | 305COR | All | 136 | 10 | 19 | 38 | 28 |
| Reference | 305COR | Dry | 54 | 10 | 18 | 40 | 30 |
| Reference | 305COR | Wet | 82 | 10 | 20 | 37 | 28 |
| Other | 305FRA | All | 140 | 40 | 112 | 193 | 152 |
| Other | 305FRA | Dry | 52 | 89 | 152 | 218 | 129 |
| Other | 305FRA | Wet | 88 | 36 | 77 | 164 | 128 |
| Other | 305FUF | All | 27 | 38 | 62 | 99 | 61 |
| Other | 305FUF | Dry | 12 | 55 | 63 | 116 | 61 |
| Other | 305FUF | Wet | 15 | 22 | 54 | 92 | 70 |
| Reference | 305LCS | All | 149 | 2 | 4 | 7 | 5 |
| Reference | 305LCS | Dry | 59 | 1 | 4 | 6 | 5 |
| Reference | 305LCS | Wet | 90 | 2 | 4 | 9 | 8 |
| Other | 305PJP | All | 162 | 5 | 16 | 31 | 26 |
| Other | 305PJP | Dry | 66 | 4 | 7 | 17 | 14 |
| Other | 305PJP | Wet | 96 | 9 | 19 | 57 | 47 |
| Reference | 305SJA | All | 167 | 7 | 14 | 22 | 15 |
| Reference | 305SJA | Dry | 69 | 6 | 9 | 16 | 10 |
| Reference | 305SJA | Wet | 98 | 10 | 17 | 27 | 17 |
| Other | 305TSR | All | 156 | 17 | 36 | 79 | 62 |
| Other | 305TSR | Dry | 61 | 19 | 36 | 101 | 83 |
| Other | 305TSR | Wet | 95 | 16 | 36 | 66 | 50 |
| Other | 305WCS | All | 29 | 2 | 4 | 9 | 7 |
| Other | 305WCS | Dry | 13 | 2 | 2 | 4 | 2 |
| Other | 305WCS | Wet | 16 | 4 | 5 | 23 | 20 |
| Other | 305WSA | All | 115 | 16 | 40 | 110 | 95 |
| Other | 305WSA | Dry | 38 | 14 | 23 | 99 | 85 |
| Other | 305WSA | Wet | 77 | 17 | 55 | 119 | 102 |
| Gabilan | 309ALG | All | 158 | 47 | 119 | 321 | 274 |
| Gabilan | 309ALG | Dry | 67 | 27 | 55 | 157 | 130 |
| Gabilan | 309ALG | Wet | 91 | 72 | 196 | 612 | 540 |
| Gabilan | 309ASB | All | 157 | 19 | 36 | 71 | 53 |
| Gabilan | 309ASB | Dry | 67 | 12 | 23 | 42 | 30 |
| Gabilan | 309ASB | Wet | 90 | 27 | 51 | 102 | 75 |
| Other | 309CCD | All | 59 | 35 | 96 | 369 | 334 |
| Other | 309CCD | Dry | 30 | 30 | 70 | 466 | 436 |
| Other | 309CCD | Wet | 29 | 51 | 113 | 316 | 265 |
| Gabilan | 309ESP | All | 161 | 45 | 108 | 361 | 317 |
| Gabilan | 309ESP | Dry | 67 | 13 | 69 | 217 | 204 |
| Gabilan | 309ESP | Wet | 94 | 65 | 153 | 536 | 471 |
| Gabilan | 309GAB | All | 41 | 236 | 432 | 1526 | 1290 |
| Gabilan | 309GAB | Dry | 13 | 236 | 349 | 1685 | 1449 |
| Gabilan | 309GAB | Wet | 28 | 239 | 530 | 1507 | 1267 |
| Gabilan | 309JON | All | 160 | 23 | 52 | 147 | 124 |
| Gabilan | 309JON | Dry | 68 | 18 | 26 | 44 | 26 |
| Gabilan | 309JON | Wet | 92 | 43 | 102 | 275 | 232 |
| Gabilan | 309MER | All | 162 | 54 | 107 | 214 | 159 |
| Gabilan | 309MER | Dry | 69 | 42 | 76 | 122 | 80 |
| Gabilan | 309MER | Wet | 93 | 67 | 156 | 367 | 300 |
| Gabilan | 309NAD | All | 119 | 41 | 94 | 374 | 333 |
| Gabilan | 309NAD | Dry | 55 | 42 | 108 | 266 | 225 |
| Gabilan | 309NAD | Wet | 64 | 40 | 83 | 555 | 515 |
| Gabilan | 309OLD | All | 114 | 36 | 89 | 177 | 141 |
| Gabilan | 309OLD | Dry | 49 | 26 | 75 | 108 | 83 |
| Gabilan | 309OLD | Wet | 65 | 56 | 102 | 222 | 166 |
| Gabilan | 309RTA | All | 15 | 78 | 461 | 1412 | 1334 |
| Gabilan | 309RTA | Dry | 7 | 48 | 71 | 273 | 224 |
| Gabilan | 309RTA | Wet | 8 | 841 | 1042 | 1790 | 949 |
| Gabilan | 309TEH | All | 162 | 69 | 114 | 220 | 151 |
| Gabilan | 309TEH | Dry | 69 | 57 | 88 | 159 | 102 |
| Gabilan | 309TEH | Wet | 93 | 84 | 140 | 399 | 315 |
| Reference | 310CCC | All | 134 | 1 | 2 | 4 | 3 |
| Reference | 310CCC | Dry | 50 | 1 | 2 | 3 | 2 |
| Reference | 310CCC | Wet | 84 | 1 | 2 | 4 | 3 |
| Other | 310LBC | All | 46 | 1 | 2 | 4 | 3 |
| Other | 310LBC | Dry | 11 | 1 | 2 | 2 | 2 |
| Other | 310LBC | Wet | 35 | 1 | 3 | 5 | 4 |
| Reference | 310PRE | All | 156 | 8 | 10 | 16 | 8 |
| Reference | 310PRE | Dry | 67 | 8 | 10 | 14 | 6 |
| Reference | 310PRE | Wet | 89 | 8 | 10 | 21 | 13 |
| Other | 310USG | All | 154 | 2 | 3 | 5 | 3 |
| Other | 310USG | Dry | 66 | 2 | 3 | 4 | 2 |
| Other | 310USG | Wet | 88 | 1 | 3 | 6 | 4 |
| Other | 310WRP | All | 102 | 1 | 2 | 6 | 5 |
| Other | 310WRP | Dry | 40 | 1 | 1 | 3 | 2 |
| Other | 310WRP | Wet | 62 | 2 | 4 | 11 | 10 |
| Other | 312BCC | All | 55 | 24 | 142 | 574 | 549 |
| Other | 312BCC | Dry | 23 | 9 | 26 | 154 | 145 |
| Other | 312BCC | Wet | 32 | 96 | 373 | 900 | 804 |
| Other | 312BCJ | All | 157 | 25 | 59 | 191 | 166 |
| Other | 312BCJ | Dry | 71 | 19 | 33 | 84 | 65 |
| Other | 312BCJ | Wet | 86 | 37 | 107 | 277 | 240 |
| Other | 312GVS | All | 114 | 4 | 14 | 66 | 62 |
| Other | 312GVS | Dry | 50 | 4 | 6 | 17 | 14 |
| Other | 312GVS | Wet | 64 | 11 | 36 | 115 | 104 |
| Other | 312MSD | All | 153 | 18 | 43 | 119 | 102 |
| Other | 312MSD | Dry | 64 | 12 | 21 | 40 | 28 |
| Other | 312MSD | Wet | 89 | 33 | 75 | 191 | 159 |
| Other | 312OFC | All | 166 | 17 | 63 | 264 | 246 |
| Other | 312OFC | Dry | 72 | 8 | 43 | 148 | 139 |
| Other | 312OFC | Wet | 94 | 28 | 95 | 425 | 397 |
| Reference | 312OFN | All | 162 | 7 | 18 | 40 | 33 |
| Reference | 312OFN | Dry | 70 | 4 | 7 | 20 | 16 |
| Reference | 312OFN | Wet | 92 | 15 | 25 | 50 | 35 |
| Other | 312ORC | All | 163 | 54 | 183 | 456 | 401 |
| Other | 312ORC | Dry | 71 | 53 | 137 | 412 | 358 |
| Other | 312ORC | Wet | 92 | 68 | 192 | 502 | 434 |
| Reference | 312ORI | All | 166 | 8 | 19 | 88 | 80 |
| Reference | 312ORI | Dry | 72 | 6 | 10 | 23 | 16 |
| Reference | 312ORI | Wet | 94 | 13 | 54 | 171 | 158 |
| Other | 312SMA | All | 156 | 52 | 118 | 219 | 167 |
| Other | 312SMA | Dry | 69 | 27 | 85 | 179 | 152 |
| Other | 312SMA | Wet | 87 | 69 | 154 | 247 | 178 |
| Other | 312SMI | All | 28 | 7 | 34 | 1723 | 1716 |
| Other | 312SMI | Dry | 8 | 3 | 5 | 8 | 5 |
| Other | 312SMI | Wet | 20 | 28 | 900 | 3000 | 2972 |
| Other | 313SAE | All | 1 | 142 | 142 | 142 | 0 |
| Other | 313SAE | Wet | 1 | 142 | 142 | 142 | 0 |
| Reference | 314SYF | All | 112 | 4 | 7 | 14 | 11 |
| Reference | 314SYF | Dry | 47 | 2 | 5 | 9 | 7 |
| Reference | 314SYF | Wet | 65 | 6 | 11 | 18 | 12 |
| Reference | 314SYL | All | 55 | 1 | 3 | 8 | 7 |
| Reference | 314SYL | Dry | 17 | 1 | 3 | 4 | 3 |
| Reference | 314SYL | Wet | 38 | 1 | 5 | 20 | 19 |
| Reference | 314SYN | All | 88 | 2 | 5 | 14 | 12 |
| Reference | 314SYN | Dry | 29 | 1 | 4 | 8 | 7 |
| Reference | 314SYN | Wet | 59 | 2 | 6 | 15 | 13 |
| Other | 315APF | All | 77 | 1 | 2 | 4 | 3 |
| Other | 315APF | Dry | 31 | 1 | 1 | 3 | 2 |
| Other | 315APF | Wet | 46 | 1 | 2 | 5 | 4 |
| Other | 315BEF | All | 124 | 1 | 3 | 5 | 4 |
| Other | 315BEF | Dry | 49 | 1 | 2 | 3 | 2 |
| Other | 315BEF | Wet | 75 | 1 | 3 | 14 | 12 |
| Other | 315FMV | All | 154 | 2 | 4 | 7 | 4 |
| Other | 315FMV | Dry | 66 | 3 | 4 | 7 | 5 |
| Other | 315FMV | Wet | 88 | 2 | 3 | 6 | 4 |
| Other | 315GAN | All | 155 | 2 | 3 | 8 | 6 |
| Other | 315GAN | Dry | 66 | 2 | 3 | 5 | 3 |
| Other | 315GAN | Wet | 89 | 2 | 4 | 15 | 13 |
| Other | 315LCC | All | 11 | 2 | 4 | 7 | 5 |
| Other | 315LCC | Dry | 4 | 2 | 3 | 7 | 5 |
| Other | 315LCC | Wet | 7 | 3 | 4 | 7 | 4 |

**Table A-3. Site descriptions and locations.**

| **Site** | **Description** | **Latitude** | **Longitude** |
| --- | --- | --- | --- |
| 305BRS | Beach Road Ditch at Shell Rd. | 36.869781 | -121.8151627 |
| 305CAN | Carnadero Creek upstream of Pajaro River | 36.959942 | -121.5345612 |
| 305CHI | Pajaro River at Chittenden Gap | 36.900330 | -121.5961533 |
| 305COR | Salsipuedes Creek downstream of Corralitos Creek | 36.912754 | -121.7437210 |
| 305FRA | Pajaro River at Frazier Lake Road | 36.963421 | -121.4908295 |
| 305FUF | Furlong Creek at Frazier Lake Road | 36.976681 | -121.5104675 |
| 305LCS | Llagas Creek @ Southside | 36.989311 | -121.5328598 |
| 305PJP | Pajaro River at Porter/Main | 36.904400 | -121.7503967 |
| 305SJA | San Juan Creek @ Anzar Rd | 36.875359 | -121.5614090 |
| 305TSR | Tequisquita Slough upstream Pajaro River @ Shore Rd | 36.942501 | -121.4448318 |
| 305WCS | Watsonville Creek (aka Corncob Canyon) at Elkhorn Rd/Hudson Lndg | 36.873852 | -121.7452087 |
| 305WSA | Watsonville Slough upstream Harkins Slough | 36.890514 | -121.8007126 |
| 309ALG | Salinas Reclamation Canal @ La Guardia | 36.656830 | -121.6135025 |
| 309ASB | Alisal Slough @ White Barn | 36.725449 | -121.7301712 |
| 309CCD | Chualar Creek west of Highway 101 | 36.559738 | -121.5096436 |
| 309ESP | Espinosa Slough upstream of Alisal Slough | 36.736839 | -121.7338562 |
| 309GAB | Gabilan Creek @ Independence Rd and East Boranda Rd | 36.692234 | -121.6291809 |
| 309JON | Salinas Reclamation Canal @ San Jon Rd | 36.702469 | -121.7086792 |
| 309MER | Merrit Ditch upstream from Hwy 183 | 36.751839 | -121.7420807 |
| 309NAD | Natividad Creek upstream from Salinas Reclamation Canal | 36.708080 | -121.5995789 |
| 309OLD | Old Salinas River at Monterey Dunes Way | 36.772289 | -121.7878571 |
| 309RTA | Santa Rita Creek @ Santa Rita Creek Park | 36.725403 | -121.6500473 |
| 309TEH | Tembladero Slough @ Haro | 36.759319 | -121.7548676 |
| 310CCC | Chorro Creek upstream from Chorro Flats | 35.357460 | -120.8121033 |
| 310LBC | Los Berros Creek @ Century | 35.103062 | -120.5788879 |
| 310PRE | Prefumo Creek @ Calle Joaquin | 35.246872 | -120.6817093 |
| 310USG | Arroyo Grande Creek @ old USGS gage | 35.124451 | -120.5691299 |
| 310WRP | Warden Creek @ Wetlands Restoration Preserve | 35.320671 | -120.8060989 |
| 312BCC | Bradley Canyon Creek @ culvert | 34.935352 | -120.3559189 |
| 312BCJ | Bradley Channel @ Jones St | 34.945438 | -120.4167862 |
| 312GVS | Green Valley @ Simas Rd | 34.942001 | -120.5565033 |
| 312MSD | Main Street Canal at Main Street Crossing | 34.955227 | -120.4865799 |
| 312OFC | Oso Flaco Creek at Oso Flaco Lake Road | 35.016388 | -120.5862579 |
| 312OFN | Little Oso Flaco Creek @ railroad trestles | 35.022797 | -120.5861588 |
| 312ORC | Orcutt Creek at sand plant above Santa Maria River | 34.957554 | -120.6314545 |
| 312ORI | Orcutt Creek @ Hwy 1 | 34.941376 | -120.5728836 |
| 312SMA | Santa Maria River above Estuary | 34.963776 | -120.6417923 |
| 312SMI | Santa Maria River at Highway 1 | 34.977207 | -120.5698318 |
| 313SAE | San Antonio Creek at San Antonio Road East | 34.782356 | -120.5292282 |
| 314SYF | Santa Ynez River at Floradale Rd | 34.672131 | -120.4921036 |
| 314SYL | Santa Ynez River at Highway 246 | 34.643871 | -120.4304504 |
| 314SYN | Santa Ynez River at 13th Street | 34.676617 | -120.5533905 |
| 315APF | Arroyo Paredon Creek at Foothill Bridge | 34.416759 | -119.5444183 |
| 315BEF | Bell Creek @ Winchester Canyon Park | 34.438438 | -119.9061203 |
| 315FMV | Franklin Creek @ Mountain View Ln | 34.406929 | -119.5173264 |
| 315GAN | Glenn Annie Creek upstream Cathedral Oaks | 34.446049 | -119.8755722 |
| 315LCC | Los Carneros Creek at Calle Real | 34.439491 | -119.8535767 |