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| **Project** | **Sample ID** | **Sample Date** | **Site Name** | ***Rhoicosphenia stoermeri*** | ***Rhoicosphenia lowei*** | ***Rhoicosphenia californica*** | **Latitude** | **Longitude** | **Elevation (meters)** | **pH** | **Conductivity (µS/cm)** | **Nitrate + Nitrite (mg/L)** | **Orthophosphate (mg/L)** |
| SWAMP | 102PS0139 | 09-Aug-10 | Elliott Creek |  | X | X | 41.995964 | -122.959796 | 1150 | 8.6 | 151 | 0.0559 | 0.0212 |
| SWAMP | 103CDCHHR | 14-Sep-10 | Cedar Creek |  |  | X | 41.788870 | -124.077660 | 37 | 8.1 | 78.2 | 0.0531 | 0.0234 |
| SWAMP | 105PS0067 | 24-Aug-09 | Crawford Creek |  |  | X | 41.139693 | -123.139284 | 704 | 8 | 435.4 | 0.1265 | 0.04485 |
| SWAMP | 105PS0067 | 15-Sep-09 | Crawford Creek |  |  | X | 41.139693 | -123.139284 | 704 | 8.2 | 494 | 0.08975 | 0.0406 |
| SWAMP | 105PS0069 | 18-Aug-09 | Tectah Creek |  |  | X | 41.295204 | -123.940414 | 214 | 6.7 | 78.3 | 0.163 | 0.01685 |
| SWAMP | 105PS0188 | 26-Aug-08 | Evans Ditch |  |  | X | 41.719720 | -122.349170 | 891 | 8.5 | 101 | 0.157 | 0.151 |
| SWAMP | 106FS0040 | 30-Aug-11 | Powell Creek |  |  | X | 40.169040 | -123.025234 | 1217 | 8.28 | 148 | 0.0453 | 0.03005 |
| SWAMP | 106PS0166 | 02-Aug-11 | Tish Tang a Tang Creek |  |  | X | 41.044416 | -123.611159 | 242 | 7.98 | 88 | 0.0474 | 0.0256 |
| SWAMP | 106WE1079 | 08-Aug-12 | Coffee Creek | X |  |  | 41.132510 | -122.806440 | 1226 | 8.75 | 162.8 | n/a | 0.02085 |
| SWAMP | 107WER092 | 27-Aug-12 | Fern Canyon Creek |  |  | X | 41.400000 | -124.058060 | 32 | 8.84 | 121.2 | n/a | 0.0493 |
| SWAMP | 110ECSLSF | 26-Jul-11 | Elk Creek |  |  | X | 40.673230 | -124.096600 | 112 | 7.98 | 154 | 0.0485 | 0.0272 |
| SWAMP | 110PS0114 | 21-Jul-10 | Elk River |  | X | X | 40.687884 | -124.050531 | 79 | 7.6 | 181 | 0.105 | 0.0281 |
| SWAMP | 110SMCATH | 27-Jul-11 | Salmon Creek |  | X | X | 40.638480 | -124.103970 | 247 | 7.96 | 230 | 0.03255 | 0.03335 |
| SWAMP | 111CE0569 | 11-May-10 | Squaw Creek |  |  | X | 40.346100 | -123.993270 | 90 | 7.56 | 134 | n/a | n/a |
| SWAMP | 111CE0569 | 15-Jun-10 | Squaw Creek |  |  | X | 40.346100 | -123.993270 | 90 | 7.88 | 143 | n/a | n/a |
| SWAMP | 111PAL105 | 13-Jul-11 | Cow Creek |  |  | X | 40.349821 | -123.964266 | 55 | 7.86 | 169.7 | n/a | 0.0363 |
| SWAMP | 111PS0008 | 09-Sep-08 | Outlet Creek | X |  | X | 39.521960 | -123.396700 | 370 | 7.83 | 219.9 | n/a | 0.0229 |
| SWAMP | 111PS0057 | 18-Aug-08 | Root Creek |  |  | X | 40.469170 | -123.929250 | 130 | 8 | 262 | 0.0551 | 0.0902 |
| SWAMP | 111PS0095 | 27-Aug-09 | Hollow Tree Creek | X |  | X | 39.789085 | -123.736942 | 337 | 8.8 | 111.9 | 0.0212 | 0.02605 |
| SWAMP | 111PS0110 | 24-Jun-09 | Rice Creek |  |  | X | 39.351536 | -122.876735 | 611 | 8.5 | 277.5 | 0.0059 | 0.01585 |
| SWAMP | 111PS0169 | 25-Jul-11 | Lawrence Creek |  |  | X | 40.582974 | -123.988914 | 133 | 8.11 | 95.7 | n/a | 0.0245 |
| SWAMP | 111PS0204 | 17-Aug-10 | Rock Creek |  |  | X | 39.277043 | -122.866029 | 784 | 7.7 | 278 | 0.0654 | 0.0189 |
| SWAMP | 112PS0157 | 12-Jul-11 | Honeydew Creek |  |  | X | 40.231606 | -124.112213 | 109 | 7.97 | 185 | 0.0051 | 0.0285 |
| SWAMP | 113GAR010 | 08-Jun-09 | Garcia River |  |  | X | 38.837370 | -123.546440 | 96 | 7.59 | 160 | n/a | 0.06 |
| SWAMP | 113GAR011 | 22-Aug-11 | Inman Creek |  |  | X | 38.891385 | -123.455869 | 171 | 7.85 | 133 | n/a | 0.064 |
| SWAMP | 113GAR110 | 30-Jun-09 | South Fork Garcia River |  |  | X | 38.855300 | -123.560220 | 90 | 7.5 | 170 | n/a | 0.0406 |
| SWAMP | 113GAR118 | 26-Jul-10 | South Fork Garcia River |  |  | X | 38.842640 | -123.549170 | 127 | 7.56 | 161 | n/a | 0.05425 |
| SWAMP | 113GAR178 | 31-Aug-10 | Signal Creek |  |  | X | 38.874895 | -123.493764 | 118 | 7.91 | 148 | n/a | 0.0819 |
| SWAMP | 113GAR244 | 28-Jun-10 | North Fork Garcia River |  | X | X | 38.931720 | -123.592380 | 89 | 8.07 | 170 | n/a | 0.0497 |
| SWAMP | 113PS0132 | 15-Sep-10 | Ten Mile River |  |  | X | 39.556712 | -123.723503 | 6 | 7.09 | 178.9 | 0.0359 | 0.04515 |
| SWAMP | 114CE0131 | 31-Jul-12 | Galloway Creek | X |  |  | 38.789722 | -123.196389 | 203 | 8.69 | 269.8 | n/a | 0.0112 |
| SWAMP | 114WER118 | 20-Aug-08 | Austin Creek | X |  |  | 38.587500 | -123.062220 | 127 | 8.71 | 467 | 0.0076 | 0.0191 |
| SWAMP | 201AHO350 | 20-Jun-12 | Arroyo Hondo Creek |  |  | X | 37.944950 | -122.743060 | 126 | 7.93 | 326 | n/a | 0.133 |
| SWAMP | 201LAG335 | 15-Jul-09 | Big Carson Creek |  |  | X | 37.992222 | -122.660000 | 225 | 8.22 | 319 | 0.107 | 0.03785 |
| SWAMP | 201LAG380 | 14-Jul-09 | Little Carson Creek |  |  | X | 37.967220 | -122.649450 | 208 | 7.38 | 400 | 0.0315 | 0.0378 |
| SWAMP | 202BUT030 | 29-Jun-10 | Butano Creek |  |  | X | 37.224740 | -122.332540 | 49 | 7.54 | 348.1 | 0.0182 | 0.0249 |
| SWAMP | 202BUT040 | 14-Jun-11 | Butano Creek |  |  | X | 37.241950 | -122.317190 | 73 | 8.37 | 263.7 | 0.0089 | 0.0289 |
| SWAMP | 202BUT050 | 16-Jun-09 | Little Butano Creek |  |  | X | 37.206070 | -122.334830 | 80 | 7.4 | 312 | 0.0818 | 0.0719 |
| SWAMP | 202PES162 | 18-Jun-08 | Pescadero Creek |  |  | X | 37.269140 | -122.263950 | 73 | 8.34 | 737 | n/a | 0.147 |

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| **Project** | **Sample ID** | **Sample Date** | **Site Name** | ***Rhoicosphenia stoermeri*** | ***Rhoicosphenia lowei*** | ***Rhoicosphenia californica*** | **Latitude** | **Longitude** | **Elevation (meters)** | **pH** | **Conductivity (µS/cm)** | **Nitrate + Nitrite (mg/L)** | **Orthophosphate (mg/L)** |
| SWAMP | 202SPE090 | 15-Jun-09 | San Pedro Creek |  |  | X | 37.575000 | -122.463000 | 76 | 6.95 | 326 | 0.0133 | 0.0185 |
| SWAMP | 204ALA525 | 22-May-12 | Alameda Creek |  | X |  | 37.496640 | -121.760430 | 333 | 8.39 | 399 | n/a | 0.083 |
| SWAMP | 204PS0094 | 14-Jul-10 | Arroyo Mocho |  |  | X | 37.689367 | -121.875814 | 101 | 9.04 | 740 | 0.0087 | 0.01145 |
| SWAMP | 205AAG400 | 05-Jun-12 | Trib. to Arroyo Aguague |  |  | X | 37.371890 | -121.732890 | 504 | 7.96 | 471 | n/a | 0.075 |
| SWAMP | 205GCAxxx | 15-Jul-10 | Guadalupe Creek |  |  | X | 37.181000 | -121.874440 | 236 | 8.29 | 394.4 | 0.0558 | 0.0221 |
| SWAMP | 205LGA700 | 23-May-12 | Los Gatos Creek |  |  | X | 37.119710 | -121.903180 | 382 | 8.35 | 344 | n/a | n/a |
| SWAMP | 205PS0045 | 17-Jun-09 | Los Gatos Creek |  |  | X | 37.293592 | -121.932988 | 48 | 8 | 123.7 | 0.0806 | 0.0364 |
| SWAMP | 205SFC880 | 19-Jun-12 | San Felipe Creek |  |  | X | 37.306760 | -121.688930 | 386 | 7.94 | 549 | n/a | 0.114 |
| SWAMP | 205STE110 | 13-Jul-09 | Stevens Creek |  |  | X | 37.287100 | -122.126000 | 356 | 8.4 | 151.7 | 0.0144 | 0.0417 |
| SWAMP | 205WUN450 | 11-Jun-12 | West Union Creek |  | X | X | 37.448920 | -122.294260 | 191 | 7.32 | 402 | n/a | n/a |
| SWAMP | 206BRC020 | 27-Jun-12 | Bear Creek |  |  | X | 37.927800 | -122.150344 | 204 | 8.25 | 832 | n/a | 0.232 |
| SWAMP | 206HCT020 | 29-May-12 | Heath Canyon Creek |  |  | X | 38.471240 | -122.488790 | 298 | 8.33 | 325 | n/a | 0.088 |
| SWAMP | 206MIL020 | 23-Aug-11 | Mill Creek |  |  | X | 38.540930 | -122.510060 | 113 | 7.9 | 169 | n/a | 0.06 |
| SWAMP | 206NAP090 | 25-Aug-11 | Napa River |  | X | X | 38.418900 | -122.353260 | 28 | 7.68 | 566 | n/a | 0.05 |
| SWAMP | 206NAP200 | 31-Aug-11 | Napa River |  |  | X | 38.568730 | -122.555270 | 93 | 7.42 | 344 | n/a | 0.06 |
| SWAMP | 206NAP700 | 21-Jun-12 | Kimball Canyon Creek |  |  | X | 38.627760 | -122.612770 | 192 | 8.19 | 452 | n/a | n/a |
| SWAMP | 206RED032 | 16-Aug-11 | Redwood Creek |  | X | X | 38.317850 | -122.327500 | 35 | 7.98 | 384 | n/a | n/a |
| SWAMP | 206SON019 | 14-Sep-11 | Sonoma Creek |  | X | X | 38.262250 | -122.462700 | 11 | 7.77 | 488 | n/a | 0.051 |
| SWAMP | 206SON050 | 12-Sep-11 | Sonoma Creek |  | X | X | 38.298400 | -122.481200 | 26 | 7.67 | 448 | n/a | 0.064 |
| SWAMP | 206SON160 | 06-Sep-11 | Sonoma Creek |  | X | X | 38.363760 | -122.526167 | 65 | 8.14 | 474 | n/a | 0.06 |
| SWAMP | 206SON210 | 07-Sep-11 | Sonoma Creek |  | X |  | 38.404920 | -122.550970 | 113 | 8.07 | 473 | n/a | 0.06 |
| SWAMP | 206SON260 | 30-Aug-11 | Sonoma Creek |  |  | X | 38.418790 | -122.561450 | 128 | 7.7 | 307 | n/a | 0.03 |
| SWAMP | 206SON300 | 10-Aug-11 | Sonoma Creek |  |  | X | 38.442640 | -122.531390 | 196 | 8.82 | 373 | n/a | 0.04 |
| SWAMP | 206SON320 | 01-Aug-11 | Sonoma Creek |  |  | X | 38.435970 | -122.507450 | 374 | 7.94 | 420 | n/a | 0.03 |
| SWAMP | 206TUL120 | 13-Jun-11 | Spencer Creek |  |  | X | 38.283767 | -122.217250 | 154 | 7.74 | 100 | 0.0593 | 0.0709 |
| SWAMP | 207PS0142 | 01-Jun-11 | Galindo Creek |  | X |  | 37.949891 | -121.972856 | 85 | 8.57 | 1016 | 0.247 | 0.195 |
| SWAMP | 304PS0006 | 17-Jun-08 | Valencia Creek |  |  | X | 36.976600 | -121.892870 | 23 | 8.43 | 393.7 | 0.446 | 0.28 |
| SWAMP | 304PS0006 | 04-Jun-08 | Valencia Creek |  |  | X | 36.976600 | -121.892870 | 23 | 8.4 | 561 | 0.444 | 0.264 |
| SWAMP | 304PS0018 | 04-Jun-08 | Lompico Creek |  |  | X | 37.119370 | -122.050350 | 220 | 8.3 | 388 | 0.0052 | 0.1765 |
| SWAMP | 304SPC236 | 28-Jun-10 | Sempervirens Creek |  |  | X | 37.168322 | -122.214217 | 298 | 7.44 | 261.5 | 0.0162 | 0.0392 |
| SWAMP | 304WDCAH1 | 29-Jun-10 | Waddell Creek |  |  | X | 37.113717 | -122.269780 | 17 | 7.67 | 303.9 | 0.219 | 0.0548 |
| SWAMP | 305LGCACR | 16-Jul-08 | Laguna Creek |  |  | X | 36.348670 | -120.820870 | 866 | 8.1 | 1260 | n/a | 0.0551 |
| SWAMP | 305LGCBRC | 30-Jun-10 | Llagas Creek |  |  | X | 37.148158 | -121.773686 | 210 | 7.9 | 444.1 | n/a | 0.0191 |
| SWAMP | 305PS0057 | 16-Jun-09 | Pajaro River |  |  | X | 36.952044 | -121.511769 | 43 | 8.2 | 178.9 | 7.78 | 0.155 |
| SWAMP | 305PS0061 | 17-Jun-09 | Llagas Creek | X |  |  | 37.082608 | -121.601093 | 83 | 8.1 | 405 | 0.006 | 0.026 |
| SWAMP | 305SSCAUC | 29-Jun-10 | Swanson Creek |  |  | X | 37.084993 | -121.794339 | 337 | 7.7 | 342.2 | 0.019 | 0.0152 |
| SWAMP | 305UVCASC | 29-Jun-10 | Uvas Creek |  |  | X | 37.086603 | -121.794512 | 302 | 8 | 364.7 | 0.0166 | 0.0131 |
| SWAMP | 307CMRADC | 22-Jun-10 | Carmel River |  |  | X | 36.372226 | -121.663084 | 324 | 7.9 | 267 | 0.006 | 0.0295 |
| SWAMP | 307SCCARR | 21-Jun-10 | San Clemente Creek |  |  | X | 36.430817 | -121.798472 | 582 | 7.2 | 159 | n/a | 0.0437 |
| SWAMP | 308BGC | 14-Jun-11 | Big Creek |  |  | X | 36.070909 | -121.598071 | 43 | 8.45 | 322 | 0.0053 | 0.0165 |

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| **Project** | **Sample ID** | **Sample Date** | **Site Name** | ***Rhoicosphenia stoermeri*** | ***Rhoicosphenia lowei*** | ***Rhoicosphenia californica*** | **Latitude** | **Longitude** | **Elevation (meters)** | **pH** | **Conductivity (µS/cm)** | **Nitrate + Nitrite (mg/L)** | **Orthophosphate (mg/L)** |
| SWAMP | 308BSU | 13-Jul-10 | Big Sur River |  |  | X | 36.245794 | -121.772225 | 80 | 8.52 | 261.2 | 0.0316 | 0.03065 |
| SWAMP | 308LSRASC | 13-Jun-11 | Little Sur River |  |  | X | 36.325600 | -121.789428 | 279 | 8 | 152 | 0.0218 | 0.0324 |
| SWAMP | 308LSRASC | 18-Jul-11 | Little Sur River |  |  | X | 36.325600 | -121.789428 | 279 | 8.06 | 172 | n/a | 0.0286 |
| SWAMP | 308MWCAH1 | 23-Jun-10 | McWay Creek |  |  | X | 36.162553 | -121.666431 | 130 | 8.46 | 323.1 | 0.166 | 0.0177 |
| SWAMP | 308PWCAH1 | 22-Jun-10 | Prewitt Creek |  |  | X | 35.935546 | -121.467810 | 29 | 8.16 | 301.4 | 0.019 | 0.0253 |
| SWAMP | 308SAM | 23-Jun-10 | Salmon Creek | X |  | X | 35.815770 | -121.358380 | 103 | 8.5 | 372.2 | 0.0105 | 0.0307 |
| SWAMP | 308SBCAH1 | 21-Jun-10 | Soberanes Creek |  |  | X | 36.455100 | -121.922610 | 28 | 7.88 | 303.7 | 0.0666 | 0.049 |
| SWAMP | 309ARSARC | 23-Jun-10 | Arroyo Seco |  |  | X | 36.119660 | -121.468660 | 625 | 7.5 | 271 | 0.0052 | 0.0199 |
| SWAMP | 309PS0116 | 16-Jun-11 | San Antonio River |  |  | X | 36.063907 | -121.326228 | 366 | 7.46 | 337.3 | n/a | 0.0372 |
| SWAMP | 309PS0116 | 16-Jun-11 | San Antonio River |  |  | X | 36.063907 | -121.326228 | 366 | 7.46 | 337.3 | n/a | 0.0372 |
| SWAMP | 309WLCATC | 22-Jun-10 | Willow Creek |  |  | X | 36.213061 | -121.535050 | 389 | 7.9 | 282 | 0.0118 | 0.0394 |
| SWAMP | 310COO | 24-Jun-10 | Coon Creek |  |  | X | 35.254757 | -120.885490 | 41 | 7.44 | 780 | 0.0068 | 0.405 |
| SWAMP | 310LPCBPC | 09-Jun-09 | Lopez Canyon Creek |  |  | X | 35.280230 | -120.541140 | 317 | 7.8 | 153.7 | n/a | 0.245 |
| SWAMP | 310OLD | 15-Jun-10 | Old Creek |  |  | X | 35.471671 | -120.858947 | 70 | 8.07 | 748 | 0.0055 | 0.06995 |
| SWAMP | 310SSU | 15-Jun-11 | San Simeon Creek |  |  | X | 35.608878 | -121.076628 | 31 | 8.31 | 544 | 0.0082 | 0.0246 |
| SWAMP | 310SSU | 11-Aug-11 | San Simeon Creek |  |  | X | 35.608878 | -121.076628 | 31 | 7.88 | 629 | 0.0123 | 0.0233 |
| SWAMP | 312RYCALR | 16-Jun-10 | Reyes Creek |  |  | X | 34.674378 | -119.297514 | 1275 | 8.1 | 517 | n/a | 0.019 |
| SWAMP | 403S01536 | 12-Jul-11 | Bouquet Canyon Creek |  |  | X | 34.569090 | -118.392126 | 846 | 8.41 | 385 | 0.254 | 0.0383 |
| SWAMP | 404BA0142 | 18-Jun-08 | Escondido Canyon |  |  | X | 34.051444 | -118.776225 | 276 | 6.74 | 2004 | n/a | 0.0386 |
| SWAMP | 404BA0376 | 05-Jun-08 | Dry Canyon Creek |  |  | X | 34.116481 | -118.661648 | 374 | 7.89 | 2540 | n/a | 0.0438 |
| SWAMP | 404BA0526 | 04-Jun-08 | Encinal Canyon |  |  | X | 34.042980 | -118.872196 | 53 | 7.66 | 1909 | n/a | 0.0539 |
| SWAMP | 404BA0964 | 04-Jun-08 | Little Sycamore Canyon |  |  | X | 34.061331 | -118.964908 | 45 | 7.82 | 1166 | n/a | 0.0281 |
| SWAMP | 404BA1128 | 19-Jun-08 | Las Virgenes Creek |  |  | X | 34.103897 | -118.712712 | 169 | 7.91 | 3534 | n/a | 0.21 |
| SWAMP | 404BA1144 | 10-Jun-08 | Las Flores Canyon |  |  | X | 34.060644 | -118.637554 | 184 | 8.15 | 1687 | n/a | 0.0222 |
| SWAMP | 404S03048 | 13-May-09 | Lindero Canyon |  |  | X | 34.184260 | -118.790890 | 355 | 7.81 | 2094 | n/a | 0.149 |
| SWAMP | 404S13416 | 08-Jun-11 | Las Virgenes Creek |  |  | X | 34.098751 | -118.715946 | 161 | 7.46 | 1954 | 3.63 | 0.133 |
| SWAMP | 404S14952 | 15-Jun-11 | Las Virgenes Creek |  |  | X | 34.142680 | -118.700899 | 229 | 7.69 | 3548 | 0.823 | 0.109 |
| SWAMP | 404S17664 | 20-May-09 | Las Virgenes Creek |  |  | X | 34.149940 | -118.697600 | 241 | 7.71 | 4028 | n/a | 0.448 |
| SWAMP | 404S34120 | 21-Jun-12 | Lindero Canyon |  |  | X | 34.165588 | -118.789188 | 312 | 7.66 | 2832 | n/a | 0.18 |
| SWAMP | 408BA0836 | 07-May-08 | Conejo Creek |  |  | X | 34.190719 | -119.005110 | 30 | 7.79 | 1521 | n/a | n/a |
| SWAMP | 504PS0019 | 30-Jun-08 | Big Chico Creek |  | X | X | 39.728550 | -121.881050 | 49 | 8.66 | 220.5 | 0.0239 | 0.03815 |
| SWAMP | 506PS0003 | 14-Sep-10 | Middle Salt Creek |  |  | X | 40.943660 | -122.334720 | 398 | 7.82 | 133 | 0.0566 | 0.0252 |
| SWAMP | 506PS0003 | 02-Jul-08 | Middle Salt Creek |  |  | X | 40.943660 | -122.334720 | 398 | 8.81 | 138.3 | 0.0253 | 0.02145 |
| SWAMP | 506PS0003 | 28-Jul-09 | Middle Salt Creek |  |  | X | 40.943660 | -122.334720 | 398 | 8.4 | 139 | 0.07235 | 0.0359 |
| SWAMP | 507PS0122 | 29-Jun-09 | Battle Creek |  | X | X | 40.394579 | -121.936169 | 366 | 8.8 | 78.7 | n/a | 0.05515 |
| SWAMP | 507PS0286 | 13-Jul-11 | Shingle Creek |  |  | X | 40.500427 | -121.932995 | 856 | 8.2 | 161 | 0.154 | 0.051 |
| SWAMP | 507PS0314 | 08-Sep-11 | Battle Creek |  | X | X | 40.425229 | -121.992285 | 278 | 8.3 | 131.7 | 0.0928 | 0.0879 |
| SWAMP | 509ACNFPP | 16-Sep-08 | Antelope Creek |  |  | X | 40.241670 | -121.862500 | 430 | 8.25 | 141 | 0.0076 | 0.06055 |
| SWAMP | 509BCCBPW | 10-Jun-09 | Big Chico Creek |  | X | X | 39.869710 | -121.707480 | 275 | 8 | 167.6 | n/a | n/a |

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| **Project** | **Sample ID** | **Sample Date** | **Site Name** | ***Rhoicosphenia stoermeri*** | ***Rhoicosphenia lowei*** | ***Rhoicosphenia californica*** | **Latitude** | **Longitude** | **Elevation (meters)** | **pH** | **Conductivity (µS/cm)** | **Nitrate + Nitrite (mg/L)** | **Orthophosphate (mg/L)** |
| SWAMP | 509BSCADC | 31-Aug-11 | Big Smoky Creek |  |  | X | 40.100093 | -121.669861 | 638 | 8.4 | 100 | 0.0262 | 0.068 |
| SWAMP | 509CWCPLR | 07-Jul-08 | Cottonwood Creek |  | X |  | 40.209590 | -121.927000 | 436 | 8.17 | 234 | 0.0703 | 0.091 |
| SWAMP | 509DCPWxx | 21-Aug-08 | Deer Creek |  | X | X | 40.069610 | -121.708860 | 517 | 8.29 | 137.5 | 0.0088 | 0.0505 |
| SWAMP | 509DRCBPC | 29-Aug-11 | Deer Creek |  |  | X | 40.165901 | -121.600676 | 885 | 8.33 | 102 | 0.0093 | 0.0575 |
| SWAMP | 509ICPPCX | 30-Jul-08 | Indian Creek |  | X | X | 40.233330 | -121.878890 | 408 | 8.22 | 281.8 | 0.0378 | 0.0812 |
| SWAMP | 509ICPPCX | 10-Sep-08 | Indian Creek |  | X | X | 40.233330 | -121.878890 | 408 | 8 | 294 | 0.0297 | 0.0612 |
| SWAMP | 509PCDTWR | 03-Sep-08 | Plum Creek |  | X | X | 40.311940 | -121.885830 | 621 | 8.14 | 221 | 0.0866 | 0.0885 |
| SWAMP | 509PCDTWR | 15-Jul-08 | Plum Creek |  | X |  | 40.311940 | -121.885830 | 621 | 8.53 | 221.8 | 0.0627 | 0.113 |
| SWAMP | 509PS0085 | 07-Sep-11 | Mill Creek |  |  | X | 40.253773 | -121.560496 | 1095 | 8 | 89.6 | n/a | 0.053 |
| SWAMP | 509PS0170 | 26-Jul-10 | Antelope Creek |  |  | X | 40.264880 | -121.768097 | 948 | 7.5 | 70.6 | 0.0224 | 0.0335 |
| SWAMP | 513PS0008 | 07-Aug-08 | Highland Creek | X |  | X | 38.932750 | -122.932870 | 481 | n/a | 302 | 0.0063 | 0.025 |
| SWAMP | 513PS0008 | 25-Jun-08 | Highland Creek | X |  | X | 38.932750 | -122.932870 | 481 | 8.3 | 227 | 0.0052 | 0.03165 |
| SWAMP | 513PS0008 | 01-Sep-10 | Highland Creek | X |  | X | 38.932750 | -122.932870 | 481 | 7.61 | 353 | 0.0159 | 0.0353 |
| SWAMP | 513UNCAKC | 10-Sep-08 | Bartlett Creek |  | X |  | 39.166430 | -122.641170 | 494 | 8.31 | 1142 | 0.0207 | 0.0331 |
| SWAMP | 513UNCAKC | 10-Sep-08 | Bartlett Springs |  | X |  | 39.166920 | -122.506730 | 525 | 8.31 | 1142 | 0.0207 | 0.0331 |
| SWAMP | 516PS0287 | 21-Sep-11 | Wolf Creek |  |  | X | 39.045124 | -121.116395 | 389 | 8.2 | 72.7 | 0.0219 | 0.0226 |
| SWAMP | 517PS0039 | 01-Jul-09 | New York Creek |  |  | X | 39.501090 | -121.287040 | 727 | 7.5 | 92 | 0.0182 | 0.019 |
| SWAMP | 518PS0045 | 21-Jul-09 | Cashman Creek |  |  | X | 40.003730 | -120.933050 | 1074 | 7.9 | 218.3 | 0.0275 | 0.0344 |
| SWAMP | 518SED086 | 17-Aug-11 | Onion Valley Creek |  | X | X | 39.806186 | -121.042598 | 911 | 8.09 | 146.6 | 0.0168 | 0.0277 |
| SWAMP | 518YLCAFR | 17-Aug-11 | Yellow Creek |  | X | X | 40.012071 | -121.247505 | 694 | 8.08 | 123.4 | 0.0117 | 0.0335 |
| SWAMP | 519MNRASR | 09-Jul-08 | Secret Ravine |  |  | X | 38.758960 | -121.255940 | 52 | 8.03 | 151.5 | 0.0293 | 0.0904 |
| SWAMP | 519PS0402 | 28-Sep-10 | Pleasant Grove Creek | X |  | X | 38.798700 | -121.347900 | 29 | 7.4 | 2325 | 0.0171 | 0.14 |
| SWAMP | 520PS0071 | 31-Jul-08 | Comanche Creek |  | X |  | 39.700080 | -121.849530 | 50 | 7.98 | 115.6 | 0.0129 | 0.029 |
| SWAMP | 520PS0135 | 29-Jul-09 | Clear Creek |  |  | X | 39.647004 | -121.642030 | 89 | 8.8 | 167 | 0.153 | 0.0985 |
| SWAMP | 521LCCBSR | 06-Jul-10 | Little Chico Creek |  |  | X | 39.885307 | -121.650558 | 704 | 7.2 | 56 | 0.0292 | 0.033 |
| SWAMP | 526PS0072 | 23-Sep-08 | Ash Creek |  | X | X | 41.134220 | -120.800250 | 1491 | 8.49 | 176 | 0.0107 | 0.0699 |
| SWAMP | 526PS0072 | 21-Sep-09 | Ash Creek |  | X | X | 41.134220 | -120.800250 | 1491 | 8.7 | 184 | 0.0132 | 0.0405 |
| SWAMP | 526PS0072 | 15-Sep-10 | Ash Creek |  | X | X | 41.134220 | -120.800250 | 1491 | 8.43 | 218 | 0.0073 | 0.0637 |
| SWAMP | 526PS0220 | 25-Aug-08 | Burney Creek |  | X | X | 41.008530 | -121.650230 | 888 | 7.79 | 119.2 | 0.123 | 0.0798 |
| SWAMP | 526PS0948 | 12-Jul-11 | Ash Creek |  | X | X | 41.208062 | -120.932832 | 1281 | 8.48 | 85 | n/a | 0.0811 |
| SWAMP | 532PS0062 | 08-Sep-10 | Clear Creek |  |  | X | 38.678919 | -120.667795 | 729 | 6.88 | 45.5 | 0.0387 | 0.0164 |
| SWAMP | 532PS0071 | 12-Oct-11 | Panther Creek |  |  | X | 38.490276 | -120.396473 | 1095 | 7.98 | 133 | 0.0241 | 0.0521 |
| SWAMP | 532PS0071 | 21-Sep-11 | Panther Creek |  |  | X | 38.490276 | -120.396473 | 1095 | 7.5 | 145 | 0.034 | 0.0449 |
| SWAMP | 532TGRUPX | 08-Oct-08 | Tiger Creek |  |  | X | 38.485250 | -120.446880 | 1113 | 7.8 | 55.7 | n/a | 0.021 |
| SWAMP | 534ANCACF | 31-Aug-10 | Arnot Creek |  |  | X | 38.407354 | -119.799362 | 1879 | 8.4 | 130 | 0.0216 | 0.0179 |
| SWAMP | 534RSCAGG | 19-Sep-11 | Rose Creek |  |  | X | 38.131938 | -120.220414 | 1070 | 7.85 | 100 | 0.0307 | 0.0391 |
| SWAMP | 542DPCDPC | 18-Jun-08 | Del Puerto Creek |  | X |  | 37.420830 | -121.373470 | 338 | 8.53 | 941 | 0.0067 | 0.0379 |
| SWAMP | 554PS0160 | 05-Aug-08 | Kelso Creek |  |  | X | 35.466240 | -118.325800 | 1842 | 7.75 | 550 | n/a | 0.226 |
| SWAMP | 555PS0064 | 17-Jun-08 | Bear Creek |  |  | X | 36.182810 | -118.788520 | 439 | 7.8 | 115.1 | 0.0132 | 0.0452 |

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| **Project** | **Sample ID** | **Sample Date** | **Site Name** | ***Rhoicosphenia stoermeri*** | ***Rhoicosphenia lowei*** | ***Rhoicosphenia californica*** | **Latitude** | **Longitude** | **Elevation (meters)** | **pH** | **Conductivity (µS/cm)** | **Nitrate + Nitrite (mg/L)** | **Orthophosphate (mg/L)** |
| SWAMP | 603DDM005 | 13-Sep-11 | Trib. to Deadman Creek |  |  | X | 37.701690 | -119.033580 | 1071 | n/a | 40.5 | 0.0611 | 0.0458 |
| SWAMP | 603PS0044 | 14-Sep-11 | Big Pine Creek |  |  | X | 37.125299 | -118.352540 | 1732 | 7.69 | 42 | 0.0443 | 0.0057 |
| SWAMP | 620PS0669 | 17-Aug-10 | Darwin Creek |  |  | X | 36.319909 | -117.525790 | 908 | 7.64 | 584 | 0.143 | 0.0727 |
| SWAMP | 626PS0619 | 03-Jun-10 | Little Rock Creek |  |  | X | 34.418763 | -117.974706 | 1183 | 7.4 | 200.3 | n/a | 0.0168 |
| SWAMP | 631PS0023 | 04-Aug-09 | Desert Creek |  |  | X | 38.472790 | -119.352110 | 2683 | 8.2 | 75.7 | 0.01655 | 0.04645 |
| SWAMP | 632HEN001 | 31-Aug-10 | Heenan Creek |  |  | X | 38.660560 | -119.627640 | 2429 | 7.8 | 133 | 0.177 | 0.0703 |
| SWAMP | 632MUR001 | 07-Sep-11 | Murray Canyon Creek |  |  | X | 38.491900 | -119.701700 | 2330 | 7.47 | 51.4 | 0.0051 | 0.0421 |
| SWAMP | 632NOB001 | 01-Sep-10 | Noble Creek |  |  | X | 38.573400 | -119.789670 | 2226 | 8.2 | 65.8 | 0.0122 | 0.0662 |
| SWAMP | 632PS0007 | 23-Jul-08 | Silver King Creek |  |  | X | 38.532810 | -119.593930 | 2096 | 8.07 | 68.2 | 0.0091 | 0.027 |
| SWAMP | 634PS0062 | 12-Oct-11 | Trout Creek |  |  | X | 38.875033 | -119.971648 | 1957 | 7.67 | 49 | n/a | 0.0305 |
| SWAMP | 634WSN001 | 04-Oct-11 | Watson Creek |  |  | X | 39.222730 | -120.100260 | 2038 | 8.3 | 67.1 | 0.0052 | 0.0333 |
| SWAMP | 637PS0018 | 04-Aug-08 | Willard Creek |  |  | X | 40.360570 | -120.805570 | 1483 | 8.51 | 146.3 | 0.016 | 0.0411 |
| SWAMP | 719WWRAEF | 09-Jun-10 | Whitewater River |  |  | X | 34.063220 | -116.820285 | 2191 | 7.3 | 98 | 0.0154 | 0.01345 |
| SWAMP | 722PS0535 | 26-May-09 | Coyote Creek |  |  | X | 33.369220 | -116.422234 | 347 | 8.5 | 141 | n/a | 0.12 |
| SWAMP | 801CCWFAC | 07-Jun-11 | City Creek |  |  | X | 34.190200 | -117.182270 | 780 | 8.4 | 211.3 | 0.0795 | 0.0411 |
| SWAMP | 801WE1132 | 29-Apr-09 | Santa Ana River |  |  | X | 34.133320 | -116.842890 | 2449 | 6.84 | 57 | n/a | n/a |
| SWAMP | 802FMCAIP | 07-Jun-11 | Fuller Mill Creek |  |  | X | 33.807222 | -116.742500 | 1770 | 7.8 | 45 | n/a | 0.054 |
| SWAMP | 845PS0011 | 14-May-08 | Fullerton Creek |  |  | X | 33.881390 | -117.896430 | 62 | 8.5 | 1417 | 0.51 | 0.0605 |
| SWAMP | 901PS0057 | 14-May-08 | Arroyo Trabuco |  |  | X | 33.528660 | -117.669250 | 61 | 8.15 | 1226 | n/a | 0.0849 |
| SWAMP | 901S04409 | 19-May-11 | San Juan Creek |  |  | X | 33.603476 | -117.453146 | 437 | 8.3 | 428 | 0.0061 | 0.0866 |
| SWAMP | 901S04565 | 26-May-11 | San Mateo Canyon Creek |  |  | X | 33.531606 | -117.414154 | 325 | 8.08 | 530 | n/a | 0.044 |
| SWAMP | 901S06969 | 31-May-12 | San Mateo Creek |  |  | X | 33.553349 | -117.395796 | 414 | 7.2 | 712 | n/a | n/a |
| SWAMP | 904PS0034 | 13-May-08 | Encinitas Creek |  |  | X | 33.067560 | -117.262760 | 23 | 7.5 | 1825 | 0.402 | 0.182 |
| SWAMP | 904S02201 | 19-May-10 | Buena Vista Creek |  |  | X | 33.179798 | -117.337354 | 17 | 7.2 | 2227 | n/a | 0.117 |
| SWAMP | 905S02561 | 25-May-11 | Santa Ysabel Creek |  |  | X | 33.129743 | -116.635916 | 1082 | 7.97 | 316 | n/a | 0.05935 |
| SWAMP | 907CCCR02 | 09-Jun-10 | Cedar Creek |  |  | X | 33.002220 | -116.708890 | 528 | 7.3 | 265.9 | n/a | 0.02715 |
| SWAMP | 907CCCR02 | 13-Jul-10 | Cedar Creek |  |  | X | 33.002220 | -116.708890 | 528 | 7.8 | 469 | n/a | n/a |
| SWAMP | 907CCCR02 | 24-Aug-10 | Cedar Creek |  |  | X | 33.002220 | -116.708890 | 528 | 7.98 | 741 | n/a | n/a |
| SWAMP | 907S03210 | 18-May-11 | San Diego River |  |  | X | 33.003129 | -116.729186 | 332 | 8.23 | 130 | n/a | 0.06495 |
| SWAMP | 907S05514 | 18-May-11 | San Diego River |  |  | X | 32.979740 | -116.742466 | 259 | 8.14 | 425 | n/a | 0.0702 |
| SWAMP | 909JPCH79 | 08-Jun-10 | Japacha Creek |  |  | X | 32.918490 | -116.571760 | 1240 | 7.4 | 2639 | 0.0153 | 0.05 |
| SWAMP | 909JQCASR | 01-Jun-11 | Juaquapin Creek |  |  | X | 32.914680 | -116.565620 | 1241 | 8.16 | 279 | 0.161 | 0.0824 |
| SWAMP | 911KCKCRx | 31-May-11 | Kitchen Creek |  |  | X | 32.787470 | -116.451610 | 1318 | 8.01 | 600 | n/a | 0.0621 |
| SWAMP | 911S01142 | 24-May-11 | Pine Valley Creek |  |  | X | 32.735477 | -116.652682 | 574 | 8.51 | 551 | n/a | 0.0525 |
| SWAMP | 911S03354 | 05-May-09 | Pine Valley Creek |  |  | X | 32.791121 | -116.616771 | 761 | n/a | 793 | n/a | 0.0364 |
| SWAMP | 911TCCTCx | 31-May-11 | Troy Canyon |  |  | X | 32.807780 | -116.440000 | 1505 | 8.08 | 355.4 | 0.0125 | 0.0501 |
| SWAMP | 911TJWIL3 | 25-May-11 | Wilson Creek |  |  | X | 32.693610 | -116.695280 | 540 | 8.31 | 716 | n/a | 0.0566 |

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| **Project** | **Sample ID** | **Sample Date** | **Site Name** | ***Rhoicosphenia stoermeri*** | ***Rhoicosphenia lowei*** | ***Rhoicosphenia californica*** | **Latitude** | **Longitude** | **Elevation (meters)** | **pH** | **Conductivity (µS/cm)** | **Nitrate + Nitrite (mg/L)** | **Orthophosphate (mg/L)** |
| SCB | DGKC1 | n/a | Kit Carson Creek |  |  | X | 33.067300 | -117.065990 | 101 | 7.7 | 1965 | 2.0450 | 0.0650 |
| SCB | DGSY1 | n/a | Santa Ysabel Creek |  |  | X | 33.127940 | -116.676160 | 898 | 8.4 | 513 | 0.2801 | 0.0217 |
| SCB | GSSJ1 | 04-Jul-07 | San Jose Creek |  |  | X | 34.456170 | -119.811070 | 32 | 7.5 | 2977 | 3.0955 | 0.0186 |
| SCB | LADC1 | 29-Jun-07 | Dry Canyon Creek |  |  | X | 34.155680 | -118.632420 | 286 | 6.7 | 2967 | 0.7389 | 0.1258 |
| SCB | SASA4 | 02-Nov-08 | Santa Ana River |  |  | X | 34.169270 | -116.820330 | 1948 | 7.5 | 346 | 0.0035 | 0.0155 |
| SCB | SCSF1 | 12-Jun-08 | San Francisquito Creek |  |  | X | 34.314090 | -118.314810 | 692 | 8.1 | 382 | 0.0224 | 0.0124 |
| SCB | SGBC1 | 25-Jun-07 | Bear Creek | X |  |  | 34.241540 | -117.885990 | 516 | 7.7 | 411 | 0.0483 | 0.0084 |
| SCB | SJBL1 | 03-Jun-08 | Bell Creek |  |  | X | 33.634320 | -117.554740 | 306 | 8.0 | 715 | 0.0070 | 0.0093 |
| SCB | SJTC2 | 15-Jun-07 | Trabuco Creek |  |  | X | 33.674200 | -117.530480 | 487 | 7.9 | 681 | 0.0224 | 0.0077 |
| SCB | SJTC3 | 11-Jun-07 | Trabuco Creek |  |  | X | 33.536430 | -117.664970 | 73 | 8.0 | 1319 | 0.0035 | 0.0514 |
| SCB | SMAD1 | 07-Nov-07 | Adobe Creek |  |  | X | 33.512720 | -117.270380 | 555 | 7.3 | 453 | 0.5230 | 0.0083 |