**ScienceHub Dataset for ScID: A-qz6m**

**Table 1.** Identification and watershed characteristics of sampling sites determined from 2011 National Land Cover Database. Reference sites (#1-3) indicated in grey.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Site #** | **Stream** | **State** | **Drainage****(mi2)** | **Urban****(%)** | **Agriculture****(%)** | **Population****(per mi2)** |
| 1 | Penn Swamp Branch | NJ | 4.60 | 0.2 | 0.0 | 0 |
| 2 | West Clear Creek | AZ | 241.42 | 0.0 | 0.0 | 0 |
| 3 | North Sylamore Creek | AR | 58.66 | 0.2 | 1.5 | 1 |
| 4 | New River | CA | 1471.12 | 4.9 | 27.3 | 52 |
| 5 | Santa Ana River | CA | 2261.44 | 23.5 | 4.6 | 1342 |
| 6 | Sycamore Slough | CA | 64.30 | 2.6 | 95.0 | 7 |
| 7 | South Platte River | CO | 4082.21 | 7.5 | 0.6 | 436 |
| 8 | C-111 Canal | FL | 51.04 | 4.9 | 65.4 | 298 |
| 9 | Hillsboro Canal | FL | 311.34 | 1.6 | 93.4 | 75 |
| 10 | Sope Creek | GA | 30.81 | 38.6 | 0.6 | 2340 |
| 11 | Fourmile Creek | IA | 60.94 | 9.5 | 77.7 | 393 |
| 12 | Sand Run Gulch | ID | 79.49 | 0.2 | 47.2 | 29 |
| 13 | South Fork Zumbro River | MN | 312.00 | 8.5 | 62.3 | 317 |
| 14 | Sunrise River Tributary | MN | 6.59 | 36.5 | 22.4 | 1194 |
| 15 | Hohokus Brook | NJ | 20.47 | 19.9 | 0.1 | 2746 |
| 16 | West Branch Delaware River | NY | 48.22 | 0.7 | 34.8 | 63 |
| 17 | Chisholm Creek | OK | 38.78 | 50.4 | 5.4 | 2289 |
| 18 | Zollner Creek | OR | 15.90 | 5.0 | 88.0 | 72 |
| 19 | Rio Bairoa | PR | 7.68 | 27.2 | 1.1 | 2733 |
| 20 | Trinity River | TX | 6264.63 | 15.4 | 14.1 | 696 |
| 21 | Hawksbill Creek | VA | 68.52 | 4.2 | 31.5 | 140 |
| 22 | Fishtrap Creek  | WA | 16.45 | 50.4 | 36.3 | 0 |
| 23 | Rio Fajardo | PR | 20.38 | 4.2 | 2.4 | 300 |
| 24 | Abrams Creek | GA | 79.58 | 1.0 | 30.2 | 12 |
| 25 | Mill Creek | OH | 177.93 | 5.4 | 75.5 | 167 |
| 26 | North Dry Creek | NE | 78.74 | 0.2 | 88.3 | 3 |
| 27 | Jordan Creek | PA | 82.32 | 13.8 | 48.5 | 1020 |
| 28 | Blue River  | MO | 184.19 | 41.4 | 29.0 | 1696 |
| 29 | Tembladero Slough | CA | 153.97 | 13.7 | 26.7 | 977 |
| 30 | Deep Creek | OR | 48.98 | 7.9 | 40.4 | 392 |
| 31 | East Branch Perkiomen Creek | PA | 29.35 | 13.5 | 43.7 | 929 |
| 32 | Chicago Sanitary and Ship Canal | IL | 749.34 | 77.3 | 1.9 | 5773 |
| 33 | Fall Creek | NY | 126.35 | 1.3 | 45.3 | 124 |
| 34 | Enoree River | SC | 84.80 | 23.6 | 8.5 | 1110 |
| 35 | Hite Creek | KY | 5.54 | 51.9 | 10.3 | 2323 |



 **Figure 1.** Concentrations of *in vitro* estrogenic activity (panels a, b) and estrogen compounds (panels c, d) across sampling sites. *In vitro* estrogen receptor transcriptional activation (T47D-KBluc, panel a) and bioluminescent yeast estrogen screen (BLYES, panel b) reported as 17β-estradiol equivalents (E2Eq). Independent chemical analyses for suites of analytes were conducted by USEPA (panel c) and USGS (panel d).



**Figure 2.** Linear relationship between estimated and actual *in vitro* activity (log transformed 17β-estradiol equivalents (E2Eq)) in the T47D-KBluc estrogen receptor transcriptional activation assay. E2Eq values were estimated from concentrations of natural and synthetic estrogens from the USEPA chemical analysis (Figure 1) based on relative potency factors of the individual compounds in the T47D-KBluc assay. Dotted lines indicate 95% prediction interval.



**Figure 3.** Concentrations of *in vitro* androgenic activity (panel a) and androgen compounds (panels b, c) across sampling sites. *In vitro* androgen receptor transcriptional activation (MDA-kb2, panel a) reported as dihydrotestosterone equivalents (DHTEq). Independent chemical analyses for suites of analytes were conducted by USGS (panel b) and USEPA (panel c).



**Figure 4.** Concentrations of *in vitro* glucocorticoid activity across sampling sites. *In vitro* glucocorticoid receptor transcriptional activation (CV-1 cells transduced with human GR and luciferase reporter genes) reported as dexamethasone equivalents (DexEq).

**Table S1**. T47D-KBluc effect concentrations (EC50) and relative potency factors (RPF; reference compound - 17β-estradiol) for estrogenic compounds detected in stream samples.

|  |  |  |  |
| --- | --- | --- | --- |
| **Chemical** | **T47D-KBluc EC50 (M)** | **17β-estradiol RPFa** | **Source** |
| 17β-estradiol (E2) | -b | 1.0 | *Multiple studies* |
| 17α-ethinyl estradiol (EE2) | 1.0e-12 | 1.7 | *Conley et al.1* |
| Estrone (E1) | 1.2e-12 | 1.4 | *Bermudez et al.2* |
| Estriol (E3) | 7.2e-12 | 0.23 | *Bermudez et al.2* |
| 4-cumylphenol | 9.7e-07 | 0.00000041 | *previously unpublishedc* |
| 4-nonylphenol | 1.5e-05 | 0.00000059 | *previously unpublishedc* |
| 4-tert-octylphenol | 6.3e-08 | 0.0000064 | *previously unpublishedc* |
| Bisphenol A | 1.3e-07 | 0.000013 | *Conley et al.1* |
| Daidzein | n/ad | 0.000019 | *Yost et al.3* |
| Formononetin | n/ad | 0.0000013 | *Yost et al.3* |
| Genistein | n/ad | 0.000048 | *Yost et al.3* |
| Coumestrol | n/ad | 0.000091 | *Yost et al.3* |
| Equol | n/ad | 0.000061 | *Yost et al.3* |
| Biochanin A | n/ad | 0.000029 | *Yost et al.3* |
| α-zearalanol | 1.2e-10 | 0.062 |  *previously unpublishede* |
| Equilenin | 3.6e-10 | 0.022 | *previously unpublishede* |

aRPF calculated for each chemical relative to concurrent E2 standard in referenced analysis

bHistorical range of E2 potency in T47D-KBluc assay from our laboratory: 1-8e-12 M

cCompounds assessed by CeeTox, Inc. (Kalamazoo, MI) as part of a government-contracted assay validation

dEC50 values not reported in reference, only relative potency factors

eChemical recently assessed at USEPA, RTP, NC

**Table S2**. MDA-kb2 effect concentrations (EC50) and relative potency factors (RPF; reference compound - dihydrotestosterone) for androgenic compounds detected in stream samples.

|  |  |  |  |
| --- | --- | --- | --- |
| **Chemical** | **MDA-kb2 EC50 (M)** | **Dihydrotestosterone RPFa** | **Source** |
| Dihydrotestosterone | -b | 1.0 | *Multiple studies* |
| Testosterone | 5.1e-10 | 0.35 | *Blake et al.4* |
| Androstenedione | 4.1e-08 | 0.0044 | *Blake et al.4* |
| 11-ketotestosterone | 2.7e-09c | 0.067 | *Rege et al.5* |
| Androsterone | 3.1e-08d | 0.0056d | *Houtman et al.6* |

aRPF calculated for each chemical relative to concurrent DHT standard in referenced analysis

bDHT EC50 range typically 1.1-1.8e-10 M

cDHT not assessed by Rege et al., RPF for 11-KT was calculated using MDA-kb2 EC50 for DHT from Blake et al.

dNo MDA-kb2 data available on androsterone, data cited used AR-CALUX assay, which had similar EC50 for DHT standard reference

**Table S3**. Mean *in vitro* bioactivity values across 35 sampling sites. Samples below method reporting limits indicated with “ND”. Reference sites (#1-3) indicated in grey.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Site #** | **Stream** | **T47D-KBluc****E2Eq** **(ng L-1)** | **MDA-kb2****DHTEq** **(ng L-1)** | **CV-1 GR****DexEq** **(ng L-1)** | **BLYES****E2Eq** **(ng L-1)** |
| 1 | Penn Swamp Branch | 0.054 | ND | ND | ND |
| 2 | West Clear Creek | 0.060 | ND | ND | ND |
| 3 | North Sylamore Creek | ND | ND | ND | 0.28 |
| 4 | New River | 1.1 | ND | ND | 0.60 |
| 5 | Santa Ana River | 1.5 | ND | ND | 0.48 |
| 6 | Sycamore Slough | 0.57 | ND | ND | 1.1 |
| 7 | South Platte River | 18 | 4.0 | 43 | 2.6 |
| 8 | C-111 Canal | 0.13 | ND | ND | 0.28 |
| 9 | Hillsboro Canal | 0.48 | ND | ND | 0.32 |
| 10 | Sope Creek | 0.54 | ND | ND | ND |
| 11 | Fourmile Creek | 116 | 2.5 | 42 | 4.1 |
| 12 | Sand Run Gulch | 0.56 | ND | ND | 0.36 |
| 13 | South Fork Zumbro River | 0.28 | ND | 18 | 0.48 |
| 14 | Sunrise River Tributary | 9.5 | 4.8 | 34 | 2.5 |
| 15 | Hohokus Brook | 3.3 | 1.6 | 6.0 | 0.88 |
| 16 | West Branch Delaware River | 0.43 | ND | ND | ND |
| 17 | Chisholm Creek | 0.93 | ND | 23 | 0.32 |
| 18 | Zollner Creek | 0.59 | ND | ND | 0.44 |
| 19 | Rio Bairoa | 1.9 | ND | ND | 0.96 |
| 20 | Trinity River | 0.89 | ND | 18 | 0.32 |
| 21 | Hawksbill Creek | 2.5 | ND | ND | 0.60 |
| 22 | Fishtrap Creek  | 0.095 | ND | ND | 2.7 |
| 23 | Rio Fajardo | 1.3 | ND | ND | 0.92 |
| 24 | Abrams Creek | 0.30 | ND | ND | 1.2 |
| 25 | Mill Creek | 0.21 | ND | ND | ND |
| 26 | North Dry Creek | 1.2 | ND | ND | ND |
| 27 | Jordan Creek | 0.29 | ND | ND | 0.28 |
| 28 | Blue River  | 18 | 2.1 | ND | 3.9 |
| 29 | Tembladero Slough | 0.54 | ND | 30 | ND |
| 30 | Deep Creek | 0.10 | ND | ND | ND |
| 31 | East Branch Perkiomen Creek | 0.97 | ND | ND | ND |
| 32 | Chicago Sanitary and Ship Canal | 5.2 | ND | ND | 2.6 |
| 33 | Fall Creek | 0.35 | ND | 23 | ND |
| 34 | Enoree River | 0.12 | ND | ND | 0.24 |
| 35 | Hite Creek | 1.3 | ND | ND | 1.0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

**Table S4**. USEPA chemical concentrations of estrone (E1), 17β-estradiol (E2), estriol (E3), 17α-ethinyl estradiol (EE2), and testosterone (T). All concentrations are in ng L-1. Concentrations below USEPA Lowest Concentration Minimum Reporting Level (LCMRL) indicated with “ND”.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Site #** | **Stream** | **E1** | **E2** | **E3** | **EE2** | **T** |
| 1 | Penn Swamp Branch | ND | ND | ND | ND | ND |
| 2 | West Clear Creek | ND | ND | ND | ND | ND |
| 3 | North Sylamore Creek | ND | ND | ND | ND | ND |
| 4 | New River | 1.0 | ND | ND | ND | 0.12 |
| 5 | Santa Ana River | 1.3 | ND | ND | ND | ND |
| 6 | Sycamore Slough | 0.74 | ND | ND | ND | ND |
| 7 | South Platte River | 16 | ND | 2.0 | ND | ND |
| 8 | C-111 Canal | 0.43 | ND | 1.0 | ND | ND |
| 9 | Hillsboro Canal | 0.97 | ND | ND | ND | ND |
| 10 | Sope Creek | ND | ND | ND | ND | ND |
| 11 | Fourmile Creek | 41 | 2.2 | ND | ND | ND |
| 12 | Sand Run Gulch | 0.64 | ND | ND | ND | ND |
| 13 | South Fork Zumbro River | 0.33 | ND | ND | ND | ND |
| 14 | Sunrise River Tributary | 4.4 | ND | ND | ND | ND |
| 15 | Hohokus Brook | 2.4 | ND | ND | ND | ND |
| 16 | West Branch Delaware River | 0.32 | ND | ND | ND | ND |
| 17 | Chisholm Creek | 0.46 | ND | ND | ND | ND |
| 18 | Zollner Creek | 0.77 | ND | ND | ND | ND |
| 19 | Rio Bairoa | 1.1 | ND | ND | ND | ND |
| 20 | Trinity River | 1.2 | ND | ND | ND | ND |
| 21 | Hawksbill Creek | 1.1 | ND | ND | ND | ND |
| 22 | Fishtrap Creek | ND | ND | ND | ND | ND |
| 23 | Rio Fajardo | 1.2 | ND | ND | ND | ND |
| 24 | Abrams Creek | ND | ND | ND | ND | ND |
| 25 | Mill Creek | 0.32 | ND | ND | ND | ND |
| 26 | North Dry Creek | 0.93 | ND | ND | ND | ND |
| 27 | Jordan Creek | 0.31 | ND | ND | ND | 0.13 |
| 28 | Blue River | 9.2 | 2.6 | 5.7 | ND | 1.0 |
| 29 | Tembladero Slough | 0.59 | ND | ND | ND | ND |
| 30 | Deep Creek | ND | ND | ND | ND | ND |
| 31 | East Branch Perkiomen Creek | 0.54 | ND | ND | ND | ND |
| 32 | Chicago Sanitary and Ship Canal | 3.9 | 0.76 | ND | ND | ND |
| 33 | Fall Creek | 0.49 | ND | ND | ND | 0.11 |
| 34 | Enoree River | ND | ND | ND | ND | 0.16 |
| 35 | Hite Creek | 0.79 | ND | ND | ND | ND |

**Table S5**. Chemical concentrations from USGS target-analyses\* for estrone (E1), 17β-estradiol (E2), estriol (E3), 17α-ethinyl estradiol (EE2), androstenedione (ASD), androsterone (ASN), dihydrotestosterone (DHT), testosterone (T), and 11-ketotestosterone (KT). All concentrations are in ng L-1. Concentrations below USGS Lowest Reporting Level (LRL) indicated with “ND”.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site #** | **Stream** | **E1** | **E2** | **E3** | **EE2** | **ASD** | **ASN** | **DHT** | **T** | **KT** |
| 1 | Penn Swamp Branch | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2 | West Clear Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3 | North Sylamore Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4 | New River | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 5 | Santa Ana River | 2.2 | ND | ND | ND | ND | ND | ND | ND | ND |
| 6 | Sycamore Slough | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 7 | South Platte River | 15 | ND | 1.8 | 0.9 | 6.1 | ND | ND | ND | ND |
| 8 | C-111 Canal | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 9 | Hillsboro Canal | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 10 | Sope Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 11 | Fourmile Creek | 32 | 2.4 | ND | ND | 2.9 | ND | ND | ND | ND |
| 12 | Sand Run Gulch | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 13 | South Fork Zumbro River | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 14 | Sunrise River Tributary | 4.7 | ND | ND | ND | 2.7 | ND | ND | ND | ND |
| 15 | Hohokus Brook | 2.8 | ND | ND | ND | ND | ND | ND | ND | ND |
| 16 | West Branch Delaware River | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 17 | Chisholm Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 18 | Zollner Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 19 | Rio Bairoa | 1.2 | ND | ND | ND | 2.1 | ND | ND | 1.1 | 1.3 |
| 20 | Trinity River | 2.1 | ND | ND | ND | ND | ND | ND | ND | ND |
| 21 | Hawksbill Creek | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND |
| 22 | Fishtrap Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 23 | Rio Fajardo | 1.4 | 0.5 | ND | ND | ND | ND | ND | ND | ND |
| 24 | Abrams Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 25 | Mill Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 26 | North Dry Creek | 1.5 | ND | ND | ND | ND | ND | ND | ND | ND |
| 27 | Jordan Creek | ND | ND | ND | ND | ND | 0.9 | ND | ND | ND |
| 28 | Blue River | 4.3 | 1.5 | ND | ND | ND | 6.3 | 1.6 | ND | ND |
| 29 | Tembladero Slough | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 30 | Deep Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 31 | EB Perkiomen Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 32 | Chicago SSC | 2.7 | 0.6 | ND | ND | 3.0 | ND | ND | ND | ND |
| 33 | Fall Creek | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 34 | Enoree River | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 35 | Hite Creek | ND | ND | ND | ND | 1.2 | ND | ND | ND | ND |

\*Analysis conducted by National Water Quality Laboratory – Hormones Laboratory (Denver, CO) using Method GM005 (Foreman et al.7)

**Table S6**. Chemical concentrations from USGS target-analyses\* for 4-cumylphenol (4CP), 4-nonylphenol (4NP), 4-tert-octylphenol (4OP), and bisphenol A (BPA). All concentrations are in ng L-1. Concentrations below USGS Lowest Reporting Level (LRL) indicated with “ND”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Site #** | **Stream** | **4CP** | **4NP** | **4OP** | **BPA** |
| 1 | Penn Swamp Branch | 22 | ND | ND | 25 |
| 2 | West Clear Creek | ND | ND | ND | ND |
| 3 | North Sylamore Creek | ND | ND | ND | ND |
| 4 | New River | ND | 298 | 168 | 139 |
| 5 | Santa Ana River | ND | ND | ND | ND |
| 6 | Sycamore Slough | ND | ND | ND | ND |
| 7 | South Platte River | ND | 446 | 257 | 92 |
| 8 | C-111 Canal | ND | ND | ND | 46 |
| 9 | Hillsboro Canal | ND | ND | ND | 61 |
| 10 | Sope Creek | ND | ND | ND | ND |
| 11 | Fourmile Creek | ND | 257 | 355 | 96 |
| 12 | Sand Run Gulch | ND | ND | ND | ND |
| 13 | South Fork Zumbro River | ND | ND | 34 | 32 |
| 14 | Sunrise River Tributary | ND | 355 | 41 | 43 |
| 15 | Hohokus Brook | ND | ND | 24 | 122 |
| 16 | West Branch Delaware River | ND | ND | ND | 26 |
| 17 | Chisholm Creek | ND | ND | ND | ND |
| 18 | Zollner Creek | ND | ND | ND | ND |
| 19 | Rio Bairoa | ND | 340 | 28 | 127 |
| 20 | Trinity River | ND | ND | 20 | 37 |
| 21 | Hawksbill Creek | ND | ND | ND | ND |
| 22 | Fishtrap Creek | ND | ND | ND | ND |
| 23 | Rio Fajardo | ND | 105 | ND | 89 |
| 24 | Abrams Creek | ND | 118 | ND | ND |
| 25 | Mill Creek | ND | ND | ND | ND |
| 26 | North Dry Creek | ND | ND | ND | ND |
| 27 | Jordan Creek | ND | ND | ND | ND |
| 28 | Blue River | ND | 248 | ND | ND |
| 29 | Tembladero Slough | ND | ND | ND | ND |
| 30 | Deep Creek | ND | ND | ND | ND |
| 31 | East Branch Perkiomen Creek | ND | ND | ND | ND |
| 32 | Chicago Sanitary and Ship Canal | 220 | 461 | ND | 163 |
| 33 | Fall Creek | ND | ND | ND | ND |
| 34 | Enoree River | ND | ND | ND | ND |
| 35 | Hite Creek | ND | 116 | ND | ND |

\*Analysis conducted by National Water Quality Laboratory – Wastewater Compound Laboratory (Denver, CO) using Method GCM99 (Zaugg et al.8).

**Table S7**. Chemical concentrations from USGS target-analyses for daidzein (DZN), formononetin (FMN), genistein (GSN), coumestrol (CEL), equol (EQL), biochanin A (BCA), α-zearalanol (AZAL), and equilenin (EQN). All concentrations are in ng L-1. Concentrations below USGS Lowest Reporting Level (LRL) indicated with “ND”.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site #** | **Stream** | **DZN** | **FMN** | **GSN** | **CEL** | **EQL** | **BCA** | **AZAL** | **EQN** |
| 1 | Penn Swamp Branch | ND | ND | ND | ND | ND | ND | ND | ND |
| 2 | West Clear Creek | ND | ND | ND | ND | ND | ND | ND | ND |
| 3 | North Sylamore Creek | ND | ND | ND | ND | ND | ND | ND | ND |
| 4 | New River | 7.3 | 170 | ND | 5.0 | ND | 1.4 | ND | ND |
| 5 | Santa Ana River | ND | ND | 7.2 | ND | ND | ND | ND | ND |
| 6 | Sycamore Slough | 1.3 | 15 | ND | ND | ND | ND | ND | ND |
| 7 | South Platte River | ND | ND | 3.9 | ND | 3.4 | ND | ND | ND |
| 8 | C-111 Canal | ND | ND | ND | ND | ND | ND | ND | ND |
| 9 | Hillsboro Canal | ND | ND | ND | ND | ND | ND | ND | ND |
| 10 | Sope Creek | 3.2 | 1.8 | 3.0 | ND | 1.6 | ND | ND | ND |
| 11 | Fourmile Creek | 21 | 21 | 6.8 | ND | 2.1 | 6.1 | ND | ND |
| 12 | Sand Run Gulch | 10 | 67 | 7.8 | ND | 20 | ND | ND | ND |
| 13 | South Fork Zumbro River | 4.5 | 15 | ND | ND | 1.1 | 5.7 | ND | ND |
| 14 | Sunrise River Tributary | ND | ND | ND | ND | ND | ND | ND | ND |
| 15 | Hohokus Brook | ND | 4.6 | 20 | ND | ND | 13 | ND | ND |
| 16 | WB Delaware River | ND | 6.5 | ND | ND | 2.8 | ND | ND | ND |
| 17 | Chisholm Creek | ND | 3.8 | ND | ND | ND | ND | ND | ND |
| 18 | Zollner Creek | 8.1 | 59 | 7.6 | ND | 4.0 | 27 | ND | ND |
| 19 | Rio Bairoa | ND | 0.8 | ND | 0.9 | 1.0 | 0.7 | 1.7 | ND |
| 20 | Trinity River | ND | ND | ND | ND | ND | ND | ND | ND |
| 21 | Hawksbill Creek | 8.3 | 8.2 | ND | ND | 5.8 | ND | 3.3 | ND |
| 22 | Fishtrap Creek | ND | 10 | ND | ND | ND | ND | ND | ND |
| 23 | Rio Fajardo | 3.0 | 1.4 | ND | ND | ND | ND | ND | 130 |
| 24 | Abrams Creek | ND | ND | ND | ND | ND | ND | ND | ND |
| 25 | Mill Creek | 3.7 | 7.1 | 5.0 | ND | ND | ND | ND | ND |
| 26 | North Dry Creek | 5.8 | ND | ND | ND | ND | ND | ND | ND |
| 27 | Jordan Creek | 0.7 | ND | 12 | ND | ND | ND | ND | ND |
| 28 | Blue River | 46 | ND | 14 | ND | 7.8 | ND | ND | ND |
| 29 | Tembladero Slough | 15 | 24 | ND | ND | ND | ND | ND | ND |
| 30 | Deep Creek | ND | 1.6 | ND | ND | ND | ND | ND | ND |
| 31 | EB Perkiomen Creek | 41 | 36 | 39 | ND | 12 | ND | ND | ND |
| 32 | Chicago SSC | 37 | ND | 42 | ND | 21 | ND | ND | ND |
| 33 | Fall Creek | 30 | 250 | 11 | ND | 28 | ND | ND | ND |
| 34 | Enoree River | 11 | 4.5 | ND | ND | 7.2 | ND | ND | ND |
| 35 | Hite Creek | ND | ND | ND | ND | ND | ND | ND | ND |

\*Analysis conducted by Organic Geochemistry Research Laboratory (Lawrence, KS) using Method LCM68 (Yost et al.3).

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