FIBI044-R3 Deepavaal Brook

Daniel Road

Municipality: Fairfield Twp

County: Essex

Drainage Area (sq miles): 6.2

Sample Date: 09/20/2013

Site Type: Fixed





IBI Metrics

Metric 1-%Rheophilic Richness	0.00
Metric 2-%Cold Non-tolerant Coolwater	26.19
Metric 3-%Generalist Richness	22.84
Metric 4-Tolerance Index	34.52
Metric 5-%Lithophilic Richness	9.66
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	30.70
Metric 8-%Benthic Insectivore Richness	17.66

Field Chemistry

Air Temp (°C)	23.5
Water Temperature (°C)	15.88
Dissolved Oxygen (mg/L)	6.4
% Saturation	63.1
pН	7.04
Conductivity (µS/cm)	790.9

Northern Fish IBI Score (0-100): 17.70

IBI Rating: Very Poor

High Gradient Habitat Score (0-200): 81

Habitat Rating: Marginal

Summary: Deepavaal Brook has endured years of bank erosion and streambed scouring which has resulted in a slow moving, turbid stream of uniform depth. As a result, there were no flow dependent (rheophilic) species and just one cyprinidae species was collected. The stream is bordered very closely by industrial parks on both sides and has little riparian buffer.

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Deepavaal Brook

Common Name	Scientific Name	Abundance
Tessellated Darter	Etheostoma olmstedi	91
Pumpkinseed	Lepomis gibbosus	61
Green Sunfish	Lepomis cyanellus	31
Carp	Cyprinus carpio	25
Banded Killifish	Fundulus diaphanus	11
Redbreast Sunfish	Lepomis auritus	8
Redfin Pickerel	Esox americanus americanus	5
Largemouth Bass	Micropterus salmoides	4
Yellow Bullhead	Ameiurus natalis	4
Bluegill	Lepomis macrochirus	3
White Sucker	Catostomus commersoni	3
Western Mosquitofish	Gambusia affinis	2
Black Crappie	Pomoxis nigromaculatus	1
Eastern Mudminnow	Umbra pygmaea	1
Creek Chub	Semotilus atromaculatus	1