

**Ohio EPA 2002 Integrated Report Appendix C
Assessment Unit (AU) Summaries**

HUC11	AU Description	AU Size (mi2)
05060001 140	Big Walnut Creek (downstream Hoover Dam to upstream Alum Creek); Blacklick Creek	145.7

Aquatic Life Use Assessment

Sampling Year(s): 2000

Sampling Site Size Distribution (mi2)

Aquatic Life Use(s): EWH,WWH,MWH-C,LRW	# Sites Sampled:	<5	5-20	20-50	>50
		13	7	7	7

Impairment? Yes

% Attainment

	<u>Full</u>	<u>Partial</u>	<u>Non</u>
Small Streams (sites w/<50 mi2 drainage):	46.7	16.3	37.0
Large Streams/Rivers (sites w/>50 mi2 drainage):	87.1	12.9	0.0

AU Score
(relative amount of attainment)

Weighted AU Score
(relative amount of attainment weighted by AU size)

<u>Full</u>	<u>Partial</u>	<u>Non</u>
0.67	0.15	0.18

<u>Full</u>	<u>Partial</u>	<u>Non</u>
97.4	21.3	27.0

High Magnitude Causes

High Magnitude Sources

Cause Unknown
Unknown Toxicity
Priority Organics
Metals
Copper
Unionized Ammonia
Nutrients
Siltation

Organic Enrichment/ DO
Thermal Modifications
Flow Alterations
Other Habitat Alterations
Pathogens
Suspended Solids
Total Toxics

Industrial Point Sources
Minor Municipal Point Source
Land Development/Suburbanization
Urban Runoff/Storm Sewers (NPS)
Onsite Wastewater Systems (Septic Tanks)
Channelization - Development
Upstream Impoundment
Habitat Modifications O/than Hydromod.

Removal of Riparian Veg.- Dev.
Contaminated Sediment
Natural
Source Unknown

Recreation Use Assessment

of Samples w/ an Ohio WQS Violation of the Secondary Contact Recreation Maximum Criterion

>5000 colonies/100 ml. fecal coliform bacteria: 20

>576 colonies/100 ml. E. coli bacteria):

Sites in AU w/ Bacteria Violations: 14

Total # Bacteria Sites in AU: 49

Other:

Impairment? Yes

Fish Consumption Assessment

Integrated Report Assessment Category: 5 Priority: 10 Scheduled Monitoring: 2010

A TMDL is in progress for the Big Walnut Creek watershed. Monitoring in support of the TMDL was conducted in 2000.