

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

HUC11	AU Description	AU Size (mi2)
05060001 160	Big Walnut Creek (Alum Creek to mouth); Alum Creek (downstream Alum Creek Dam 99.7 to mouth)	

Aquatic Life Use Assessment

Sampling Year(s): 2000

Sampling Site Size Distribution (mi2)

Aquatic Life Use(s): EWH,WWH,LRW

# Sites Sampled:	2	1	0	9
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Impairment? Yes

% Attainment

	<u>Full</u>	<u>Partial</u>	<u>Non</u>
Small Streams (sites w/<50 mi2 drainage):	0.0	100.0	0.0
Large Streams/Rivers (sites w/>50 mi2 drainage):	43.5	56.5	0.0

<u>AU Score</u> (relative amount of attainment)		
<u>Full</u>	<u>Partial</u>	<u>Non</u>
0.44	0.56	0.00

<u>Weighted AU Score</u> (relative amount of attainment weighted by AU size)		
<u>Full</u>	<u>Partial</u>	<u>Non</u>
43.4	56.3	0.0

High Magnitude Causes

Cause Unknown
Siltation
Organic Enrichment/DO
Flow Alteration
Other Habitat Alterations

High Magnitude Sources

Combined Sewer Overflows
Land Development/Suburbanization
Urban Runoff/Storm Sewers (NPS)
Channelization - Development
Habitat Modifications o/than Hydromod.

Recreation Use Assessment

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

>5000 colonies/100 ml. fecal coliform bacteria: 29

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

Sites in AU w/ Bacteria Violations: 17

Total # Bacteria Sites in AU: 26

Other:

Impairment? Yes

Fish Consumption Assessment

Integrated Report Assessment Category: 5 Priority: 11 Scheduled Monitoring: 2010

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