

**Ohio EPA 2006 Integrated Report Appendix E.3
Large River Assessment Unit (LRAU) Results**

LRAU Description

Cuyahoga River Mainstem (downstream Brandywine Cr. to mouth incl. old channel)

LRAU Size (mi²)

809.0

Integrated Report Assessment Category: 5

Priority Points: 2

Next Scheduled Monitoring: 2020

Aquatic Life Use (ALU) Assessment

Subcategories of ALU: WWH, LRW

Sampling Year(s): 1996, 2000-2002, 2004

Impairment: Yes (4A)

LRAU Total Length (miles): 25.34

No. Miles Full Attainment: 6.98

LRAU Monitored Miles: 25.34

No. Miles Partial Attainment: 11.08

No. Sites Sampled: 30

No. Miles Non-Attainment: 7.28

% LRAU Attainment (Monitored Miles)

Full	Partial	Non
27.6	43.7	28.7

High Magnitude Causes

Organic Enrichment/DO
Unknown Toxicity
Direct Habitat Alterations
Total Toxics
Unionized Ammonia

High Magnitude Sources

Combined Sewer Overflow
Major Municipal Point Source
Contaminated Sediments
Dredging/Development
Marinas
Spills
Urban Runoff/Storm Sewers (NPS)
Streambank Modification/Destabilization

Recreation Use Assessment

Subcategory of Use: Primary Contact

Impairment:

Geometric Mean: 477

No. of Ambient Sites: 0

No. of Ambient Sampling Records: 0

75th %ile: 935

No. of NPDES MOR Sites: 1

No. of NPDES MOR Records: 126

90th %ile: 6400

Other:

Fish Tissue Assessment

Large River Sampled: Yes Impairment: Yes (5)

Miles Monitored: 24.16 Miles Impaired: 24.16

Pollutant(s): PCBs

Comments

A report developing TMDLs for pollutants impairing beneficial uses (aquatic life and recreation) in the lower Cuyahoga River basin including the Cuyahoga River mainstem assessment unit was approved by U.S. EPA on September 26, 2003. Monitoring in support of the TMDLs was conducted in 1996, 1999, and 2000. Limited data collected by NEORSD in 2001 and 2004 was used to update aquatic life conditions in the vicinity of the Southerly WWTP. The TMDL report is available at <http://www.epa.state.oh.us/dsw/tmdl/index.html>. Besides the historical aquatic life and recreation use impairments, the 2004 Integrated Report assessment of fish tissue data documented body burdens of one or more pollutants at levels exceeding the threshold level upon which Ohio Water Quality Standards human health criteria are based which resulted in listing as impaired for fish consumption.