

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

JUL 2 2012

REPLY TO THE ATTENTION OF

Mrs. Patricia Birkholz
Director, Office of the Great Lakes
Michigan Department of Environmental Quality
525 West Allegan
P.O. Box 30273
Lansing, Michigan 48909-7773

Dear Patty:

Thank you for your June 4, 2012 request to remove the "Degradation of Aesthetics" Beneficial Use Impairment (BUI) at the Binational St. Clair River Area of Concern (AOC) in Michigan. As you know, we share your desire to restore all of the Great Lakes and to formally delist them.

Based upon a review of your submittal and the supporting data, the U.S. Environmental Protection Agency hereby approves your BUI removal request at the St. Clair River Binational AOC. In addition, EPA will notify the International Joint Commission of this significant positive environmental change at this AOC.

We congratulate you and your staff, as well as the many federal, state, international and local partners who have worked so hard and been instrumental in achieving this important environmental improvement. Improving environmental conditions for humans and wildlife at AOCs is a high priority of the Great Lakes Restoration Initiative and we are pleased that the work of your agency and its partners are making a significant contribution to that goal not only for this AOC but for the entire Great Lakes basin as well.

We look forward to the continuation of this important and productive relationship with your agency and local coordinating committees as we work together to fully restore all of Michigan's AOCs.

If you have any further questions, please contact me at (312) 353-4891, or your staff may contact John Perrecone, at (312) 353-1149.

Sincerely,

Chris Korleski, Director

Great Lakes National Program Office



STATE OF MICHIGAN

OFFICE OF THE GREAT LAKES





June 4, 2012

Mr. Chris Korleski, Director Great Lakes National Program Office United States Environmental Protection Agency Region 5 77 West Jackson Boulevard (G-17J) Chicago, Illinois 60604-3507

Dear Mr. Korleski:

I am writing to request the United States Environmental Protection Agency (U.S. EPA), Great Lakes National Program Office's (GLNPO) concurrence with the removal of the Degradation of Aesthetics Beneficial Use Impairment (BUI) from the St. Clair River Area of Concern (AOC). The Michigan Department of Environmental Quality (MDEQ), Office of the Great Lakes (OGL) has assessed the status of the BUI in accordance with the MDEQ's Statewide Aesthetics Assessment Workplan and Monitoring Protocol, consistent with the state's *Guidance for Delisting Michigan's Great Lakes Areas of Concern*, and recommends that the BUI be removed from the list of impairments in the St. Clair River AOC.

Enclosed please find documentation to support this recommendation, including the BUI Removal Recommendation document prepared by the MDEQ staff. The St. Clair River Binational Public Advisory Council (BPAC) submitted a letter supporting this recommendation which is included with this package. The proposed BUI removal was public noticed via the Mich-RAP listserv, the MDEQ Calendar, and the MDEQ AOC Program Web site. No written comments were received in response to the public notice period which ran for 30 days, from April 23, 2012 to May 22, 2012.

We value our continuing partnership in the AOC Program and look forward to working with GLNPO in the removal of additional BUIs in the near future. If you need further information concerning this request, please contact Mr. John Riley, OGL, at 517-335-4122, or you may contact me.

Sincerely

Patricia Birkholz

Director

517-335-4056

Enclosures

cc: Ms. Patty Troy, St. Clair River BPAC

Mr. John Perrecone, U.S. EPA

Ms. Rose Ellison, U.S. EPA

Mr. Dan Wyant, Director, MDEQ

Ms. Lynelle Marolf, OGL

Mr. Richard Hobrla, OGL

Mr. John Riley, OGL

cc: Dan Wyant, Director, MDEQ
Lynelle Marolf, MDEQ, Office of Great Lakes
Rick Hobrla, MDEQ, Office of Great Lakes
John Riley, MDEQ, Office of Great Lakes
Dr. Saad Jasmin, IJC
Wendy Carney, EPA, GLNPO
Rose Ellison, EPA, GLNPO
John Perrecone, EPA, GLNPO

Removal Recommendation Degradation of Aesthetics Beneficial Use Impairment St. Clair River Area of Concern

Issue

Based on two cycles of monitoring data collected by Michigan Department of Environmental Quality (MDEQ) staff, the Office of the Great Lakes (OGL), Areas of Concern (AOC) program requests concurrence with its recommendation to remove the Degradation of Aesthetics Beneficial Use Impairment (BUI) from the US side of the St. Clair River AOC. This request is made with the support of the St. Clair River Binational Public Advisory Council (BPAC) and in accordance with the process and criteria set forth in the *Guidance for Delisting Michigan's Great Lakes Areas of Concern* (Guidance) (MDEQ, 2008).

Background

The following description is paraphrased from the 2005 Remedial Action Plan update, discussing specific aesthetic problems at the time:

The Degradation of Aesthetics BUI was impaired in the St. Clair River as a result of oily surface films, spills and combined sewer overflow (CSO) events from the cities of Port Huron and Sarnia. However, over time, five CSOs were eliminated in the City of Port Huron and two CSOs in Sarnia were replaced. Improvements to sewage treatment and storm water systems in Ontario and Michigan, improvements in the St. Clair Waste Water Treatment Plant (WWTP), continued sediment remediation offshore of the Sarnia Industrial Complex, and the maintenance of habitat restoration projects were expected to contribute to the removal of the BUI (Environment Canada, 2005).

2011 Aesthetics Monitoring

Two cycles of assessments were conducted in 2011, in accordance with the MDEQ's 2011 Statewide Aesthetics Assessment Workplan and Monitoring Protocol. Each of the St. Clair River monitoring sites was assessed as follows.

The date, time, GPS coordinates, weather conditions and water temperature were recorded. Three water samples were collected in glass jars from below the water surface to assess water color, clarity and turbidity. All three sample jars were photographed together against a white backdrop. Any odors from the sample jars, visible debris, and obvious pollution (if any) in the River were recorded. Digital photographs were taken along the shoreline to the left, to the right, straight across, and directly into the water, along with any other condition, debris, etc. worthy of recording. Evidence of recreational activity, such as empty bait containers or people swimming was noted, along with any other observable conditions that may influence the decision as to the presence of a designated use impairment or a designated use being employed. Based on the total of those observations, each site was assessed as to whether it met the criteria for removing the Degradation of Aesthetics BUI.

At most monitoring locations, a minimum of five photographs were taken and are available upon request, as are the individual monitoring data sheets completed at each site. Specific monitoring locations were chosen based on: historical RAP documents, input received from the BPAC, best professional judgment and personal knowledge of the MDEQ AOC coordinator, and physical access to the waterbody.

Overall, it appears that aesthetic conditions in the St. Clair River AOC have improved considerably, when compared with historic reports of those conditions from years ago. Many of the aesthetic conditions described in early RAPs and other related documents simply no longer exist. In part, this may be due to the successful implementation of National Pollutant Discharge Elimination System (NPDES) program permitting, an increasing sense of resource stewardship by local resource users, improved environmental practices implemented by municipal, commercial and industrial operations in the AOC, and increased advocacy and educational outreach by organizations seeking to enhance and protect the resource.

Removal Criteria

According to the *Guidance*, this BUI will be considered restored when monitoring data for <u>two successive monitoring cycles</u> indicates that water bodies in the AOC do not have any of the following physical properties in unnatural quantities which interfere with any designated use:

turbidity

• foams

color

settleable solids

• oil films

suspended solids

floating solids

deposits

For the purposes of this criterion, these eight properties impair aesthetic values if they are unnatural – meaning those that are manmade (e.g., garbage, sewage), or natural properties which are exacerbated by human-induced activities (e.g., excessive algae growth from high nutrient loading). Persistent, high levels are those defined as long enough in duration, or elevated to the point of being injurious, to any designated use listed under Rule 323.1100 of the Michigan WQS. Natural physical features which occur in normal ecological cycles (e.g., logjams/woody debris, rooted aquatic plants) are not considered impairments, and in fact serve a valuable ecological role in providing fish and wildlife habitat.

2011 Aesthetics Monitoring Results and Analysis

The St. Clair River AOC was assessed on August 10 and October 26, 2011, see Figure 1 for locations. Five sites were assessed from shore between Algonac and Port Huron, on the US side of the AOC. Fish, ducks and shorebirds were observed, as were fishermen and evidence of people having fished from shore throughout the assessment areas. No debris, films, scum, or other conditions were noted in quantities which may interfere with any of the state's designated uses. A total of approximately 57 photos were taken, and 30 water samples were assessed through both monitoring cycles.

At the mouth of the Black River, a slight brown color was noted in samples collected during the initial assessment, but turbidity was low. A moderate rain event moved through the area the night prior to the second assessment. However, this did not appear to result in observable turbidity in water samples that were collected.

Rock rip rap, broken concrete and steel sheet piling were observed as methods for stabilizing shorelines, but these are ubiquitous conditions throughout waterfront areas and do not interfere with the state's designated uses.

Removal Recommendation: Degradation of Aesthetics BUI, St. Clair River AOC Page 3

No unnatural odors were detected, no foams or oil sheens were observed, and only minimal discarded debris, such as tires was found. Occasionally, the monitoring crew saw minimal floating trash that had washed ashore. It is the opinion of MDEQ staff that the US side of the St. Clair River AOC is no longer aesthetically impaired, following two rounds of monitoring.



Figure 1. St. Clair River Aesthetics Monitoring Locations.

It is important to note that the BPAC continues to raise concerns regarding sedimentation and nutrient inputs to the AOC from the Black River, which discharges to the St. Clair River at Port Huron. The BPAC submitted photos of the area, showing high turbidity, along with photos of water samples collected in jars with significant discoloration, presumably due to suspended solids. The position of the MDEQ is that these conditions are not persistent enough to indicate, nor is there any data to support such an assertion, that one of the state's designated uses is being impaired as a result. However, the MDEQ Water Resources Division plans to conduct monitoring in the Black River in 2012, as part of its five-year watershed monitoring cycle.

Recommendations

Based on observations, data and photographs collected during two successive monitoring cycles carried out by MDEQ AOC staff and a Water Resources Division Aquatic Biologist, and with the support of the St. Clair River BPAC, MDEQ program staff recommend removal of the Degradation of Aesthetics BUI from the US side of the St. Clair River AOC and request that the Director of the Office of the Great Lakes submit a letter requesting concurrence from the USEPA to remove this BUI. The St. Clair River BPAC discussed the issue in detail at its March 29, 2012 meeting. Members voted unanimously to support removal of the BUI. The BPAC submitted a letter dated April 9, 2012 expressing support for this action.

This proposed action was public noticed for 30 days via posting to the Mich-RAP listserv and listing in the MDEQ Calendar. Supporting documents were posted on the MDEQ's AOC program web page for public review and comment from April 23 through May 22, 2012. No written comments were received during the 30 day public notice period.

Removal Recommendation: Degradation of Aesthetics BUI, St. Clair River AOC Page 4

References

Environment Canada, 2005. St. Clair River RAP Progress Report, 2005.

Michigan Department of Environmental Quality. 2008. Guidance for Delisting Michigan's Great Lakes Areas of Concern. MI/DEQ/WB-06/001.

Michigan Department of Environmental Quality, 2011. Statewide Aesthetics Assessment Workplan and Monitoring Protocol.

Prepared by: John Riley, Environmental Quality Analyst

Office of the Great Lakes

Michigan Department of Environmental Quality

May 23, 2012



April 9, 2012

Mr. John Riley
Office of the Great Lakes
Michigan Department of Environmental Quality

Dear Mr. Riley;

The members of the St. Clair River Binational Public Advisory Council (BPAC) were presented with the results of the assessment of the Degradation of Aesthetics Beneficial Use Impairment (BUI) in the St. Clair River Area of Concern at our March 29th meeting. The recommendation resulting from that assessment is for the removal of this BUI. The BPAC supports this recommendation and requests the MDEQ and the EPA to proceed with the formal redesignation.

We note, however, that the St. Clair River continues to experience events which temporarily and locally degrade the aesthetics of the river. The separations of remaining CSOs to the St. Clair River are planned. Stormwater through separated sewers carries oil and trash. The potential for spills, sanitary sewer overflows, dumping, and impervious surface runoff all contribute to aesthetic problems.

The impact of the Black River on the St. Clair River is also of great concern to council members. The 2008 Black River assessment report published by the Michigan DNR notes that "The entire Black River and most, or all, tributaries suffer greatly from high sediment loadings due to erosion from widespread channelization and poor land management practices. Unnaturally high-sediment loadings to a river system create a number of serious geomorphic and biological problems." A continuous sediment plume is seen at the confluence of the Black and St. Clair Rivers. For weeks following heavy rain, this plume is observed downstream for several miles.

Concern for the Black River's impact on the St. Clair River prompted the BPAC in 2009 to request that the Black River be evaluated for listing on the Clean Water Act 303(d) list of impaired waters for suspended solids. We are hopeful that implementation of the 319 watershed management plan for the Black River and the Total Maximum Daily Load (TMDL) process will provide mechanisms for addressing our concerns. Existing state and federal watershed programs including the Clean Water Act Nonpoint Source TMDL

and National Pollution Discharge Elimination System are charged with the responsibility of ensuring that designated uses are not impaired. If other programs would be well suited to addressing sediment loading problems in the Black River, we would encourage utilizing those programs as well.

Despite these concerns, BPAC members believe that removal of the aesthetics impairment is appropriate. We believe that the existing state and federal watershed programs are in-place to appropriately address remaining concerns through more effective land use planning and public education. We wish to thank the DEQ for undertaking this BUI assessment and for considering our concerns.

Sincerely,

Patty Troy US Co-Chair

Patty Trong

Kris Lee

Canadian Co-Chair

Krix Lee.