

Black River Area of Concern Advisory Committee

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BLACK RIVER AREA OF CONCERN

Advisory Committee Meeting Minutes

Thursday, February 26, 2015

2:00 PM

Carlisle Visitor Center, Lorain County Metro Parks 12882 Diagonal Road, LaGrange, OH 44050

In Attendance:

Beaver Creek Watershed Group (Matt Nahorn); City of Elyria Wastewater (Tony Nigro); City of Lorain (Derek Feuerstein, Kate Hoffmann); Lorain County Community Development (Lyn Ickes, Don Romancak); Lo Co 'Yaks (Robb Koscho); Lorain County General Health District (Stephanie Lesco, Jill Lis, John Sabo); Lorain County Metro Parks (Bryan Goldthorpe); Medina County Soil and Water Conservation District (Jeff Van Loon); Ohio EPA (Ted Conlin); ODNR Office of Coastal Management (Steve Holland); US Fish and Wildlife Service (JoAnn Banda)

Agenda Items

Approval of Draft Meeting Minutes from 11-13-2014

• Minutes approved as submitted

Request for Letter of Support

- Presentation by Kate Hoffmann (presentation follows meeting minutes)
- Highlighted work that has been completed through grant funds in the City of Lorain and future projects
- Asked for Black River AOC Advisory Committee to support a NOAA grant proposal for a new bulkhead habitat project
- US EPA and GLNPO will be putting less weight on letters of support and more weight on if the projects will help remove a BUI or restore an AOC
 - They want AOC committees to develop a list of projects that are needed to remove a BUI and/or restore an AOC
- Approved letter of support; Committee requested updated throughout the project

AOC Funding Support/Opportunity for Extension

- Current grant funding will be extended for approximately 2-2.5 months (Summer 2015)
- Discussion on types of projects that could potentially be funding with extension dollars

- Operating support
- o Website redesign
- Black River Clean-Up on May 2-3
- Black River Kayak-A-Thon on June 27
- \circ Outreach to schools/creation of curriculum focused on invasive species (to go along with PIPE theme)

AOC Re-Designation Status

- Presentation by Ted Conlin (presentation follows meeting minutes)
- Possible resizing from the entire Black River watershed to the Mainstem and French Creek; will allow focus on most pressing issues of the river/narrows scope of focus
- Upper watersheds could be better handled with watershed action plans, TMLD, and sub-watershed groups
- Next steps
 - Get approval from Advisory Committee to start re-designation process
 - May require a meeting in March depending on how the process is moving with EPA; will require a vote from members
 - Approval from Ohio EPA
 - Approval from US EPA

Next Steps for AOC Advisory Committee

- Finalize bylaws
- Appointment of officers
- Meeting schedule for 2015
 - Advisory Committee requested a March meeting; use meeting scheduler to determine date
- Miscellaneous
 - Members are required to complete a training on Ohio ethics laws (per new policy document); need to determine how and when this training will take place

Old Business

None

New Business

Metro Parks Lakeview Beach Program

- Received a grant to use border collies to help clear beach of seagulls
- Will test to see if the lack of seagulls has an impact of the *E. coli* levels at the beach (expecting them to decrease)
- Program will run the week before Memorial Day through September

Black River Clean-Up

- Clean-up will be held Saturday and Sunday, May 2-3 at the Black River Wharf
- Get more information and register for the event at <u>http://blackrivercleanup.webs.com/</u>
- Any participation is greatly appreciated

5th Annual Black River Kayak-A-Thon

- Event will be held on Saturday, June 27 at the Black River Wharf
- Will take place all at one location this year; more information will follow

Rock For Water Recycled Fashion Show

- A David Anthony Salon puts together a recycled materials fashion show as a fundraiser
- This year proceed go toward the Black River Clean-Up and Sierra Club
- Event is Saturday, April 18 at 8:00 PM at Nick Abraham Ford in Elyria
- For more information visit their Facebook page: <u>https://www.facebook.com/RockForWater?sk=timeline&app_data</u>

Willow Creek Project Update

- All field assessments are completed
- Ranking to narrow projects to top 3 and create conceptual plans
- Will be completed in April
- Have EnviroScience present at April meeting

Next Meeting - Thursday, April 23, 2015 at 2:00 PM in the Carlisle Room of the Carlisle Visitor Center (12882 Diagonal Road, LaGrange, OH 44050)

A meeting to finalize bylaws and structure will be planned for March 2015.

Minutes submitted by Stephanie Lesco on March 10, 2015



Outline

Completed Projects (2010-2013) Biological Data Recent Project Activity Proposed 2015 Habitat Projects (Letter of Support) Future Projects





Agency/ Project	Amount	Restoration Components	Completion
DEPA ARRA	\$6.3M	Slag removal, floodplain restoration, fish shelves, bank stabilization	Summer 2012
DEPA SEP	\$100,000	Slag removal, revegetation	Fall 2011
JSFWS	\$340,000	Bioremediation system removal, reveg	Winter 2011
NOAA P1	\$1.6M	Fish shelves, bank stabilization	Spring 2013
NOAA P2	\$1.1M	Fish shelves, bank stabilization	Summer 2014
NOAA P3	\$350,000	RM 4.7 to 5.0 assessment and design	Winter 2012
DDNR	\$238,000	Heron Rookery Phase I Restoration	Winter 2014
DEPA	\$200,000	Additional RM 4.7 to 5.0 design	Winter 2014
USEPA	\$250,000	Lakeview Beach Green Infrastructure	Winter 2016
DDNR	\$250,000	Restored 4 acres adjacent to Rookery	Spring 2015
NOAA Rookery/Landing	\$1.3M	Restore 1,370 ' of bank and 1,000 feet of fish shelves	Fall 2016
NOAA Rookery PII	\$175,000	Assessment of the BOP Pond adjacent to the Rookery	Spring 2015
USFWS Drums	\$284,500	Assessment of 4 acre drum disposal area	Fall 2016





















Recent Activity

Completed or near completion:

- Heron Rookery Phase II Recently completed
- Ohio EPA Assessment (Seep) design complete, awaiting funding
- NOAA– BOP Pond Assessment

Ongoing:

• USFWS Drum Assessment – start in summer/fall 2015















What does disposal cost?						
Off-site Disposal at LC Landfill In Special Cell	\$16,098,500					
On-site Disposal Cell Creation for BOP Material	\$5,005,600					
Expansion of On-site Cell for Drum Disposal	\$2,689,400					
On-site Cell for BOP and Drums Total	\$7,695,000					
Cap In-Place	\$1,347,600					











RM 0-3 Bulkhead Habitat – NOAA 2015 Application

Phase I (\$2,993,813):

- Assessment of RM 0-3
- Design & construction at LSYC/City property
- Phase II (\$6,656,250):
- Design & construction of 1,500 additional feet of traditional or bulkhead fish shelves

Phase III: Post-construction monitoring (\$50,000)















Black River Lacuetuary Habitet & Biological Monitoring Data																	
	1.00 (Sub Sparler & B1)		Miwb (Fish Visual Wellbeing)				L-ICI (Rugs)				LQHEI (Habitat Condition)						
Kover Miles	2010	2011	2012	2013	2010	2011	2012	2013	2010	2011	2012	2013	2008	2000	2011	2012	201
Black River 0.3			22				6.0				<u>14</u>					2	
0.60	40	29	42 42	45	7.9	7.8	8.2 <u>8.1</u>	9.3	24	20	18 14	14	57	49	55	47.5 29.5	52.5
1.40	32	31	41	42	2.2	8	8	8.1	12		16	18	35	25	29	35.7	34.5
1.60	36	34	36 41	43	7.9	7.4	6.9 8.6	8.1	20	6	16 12	18	45	43	42	43.7 21.5	43.5
1.70	38	34	25	38	7.8	8.4	7.4	9.2	16	12	20	14	45	36	49	37.3	40.7
2.00	38	36	36	42	9	9	8.6	8.9	12	8	14	16	42.5	45	47	47.5	50
2.30	40	38	46	41	8.2	8.3	8.3	9.4	30	6	16	18	22	29	36	36	37
3.00	30	36	37	36	8.5	8.1	8.1	8.8	8	8	10	30	51	48	44	45.5	44.5
3.40	_		41		L		8.7				_				L		
3.60	22 21	24 44	43	41	8.2 7.6	8.9 8.9	8.5	9	12	12	14 <u>15</u>	12	47	49	45.8 60.8	59	62
3.70	22	35	37	22	7.7	8.3	8	7.8	30	8	10	14	47.5	49.5	42.5	40.5	42.3
3.80	-		44	35			8.5	8.1	<u> </u>	-	14	12	-	<u> </u>	<u> </u>	62	56
3.90	34	22	29	29	8.5	7.8 8.3	8.5	8.7	8	6	12	14	48	54.5	\$0.5	\$2.8	\$3.5
3.91		24	41	28		7.8	9	8.1		20		14	52		46.5	64	56.3
4.6		42	44	29	95 92	85		8.9	•		10	20	- 44	~	51	51.6	57.3
446	-	10	-	44		6.4	8.1	8.2	<u> </u>		·	20	4	<u> </u>	44.5	6	48
48	25	22	X 4	30	7.5	75	86 79	8.2	14	22	0 16	12	40	45	44	427 29	- 44
490	29	22	22	22	7	7.9	71	7.0	6	36		20	41.0	28	415	417	42.3
520	32	24	41	29	7.4	8.4	9	7.5	8	и	12		41	41.3	417	46.5	49
521	24	31	40	21	7.1	7.3	8.9	8.4	2	и	10	24		50	51	53	52.7
5.40											14						
All average by year	25.3	34.8	39.0	36.7	8.0	8.1	8.2	8.5	11.1	11.2	13.2	15.9	41.2	45.1	46.2	43.3	48.1
Farget	42	42	42	42	8.2	8.2	8.2	8.2	34	34	34	34	55	55	55	55	55
K of Target	84.0%	02.0%	02.9%	87.5%	00.1%	58 PK	100.1%	102.2%	22.7%	22.0%	30.0%	46.7%	01.2%	92.0%	03.9%	78.7%	07.00



HOW WERE THE BUIS LISTED AS IMPAIRED?						
BUI	Stage 1 Report					
Fish Consumption	Nearshore & Mainstem: Impaired FC: <i>Potentiat</i> , Remainder: <i>Low potential</i>					
Fish Populations	Nearshore: Unknown; Mainstem, FC, EB & WB: Impaired base on OEPA data					
Fish Tumors	Nearshore & Mainstem: Impaired; Remainder: Low potential					
Benthos 1	Nearshore: Unknown; Mainstem & Remainder: Impaired					
Dredging	Mainstem: Impaired; Remainder: Not applicable					
Eutrophication/Algae ²	Nearshore: <i>Low potential</i> ; Mainstem: <i>Potential</i> ; EB: Impaired @ Brentwood Lake; WB: Impaired @ Findley Lake; Remainder: <i>Potential for low DO</i>					
Beach Closings (Recreational Use)	Nearshore: Occasionally impaired; Mainstem: <i>Impaired for</i> contact (was lifted by ODH); Remainder: Occasionally Impaired					
Aesthetics ³	Nearshore, Mainstem and Remainder: Impaired					
Fish Habitat	Nearshore & Mainstem: Impaired due to dredge activities and shoreline alterations Remainder: Impaired in certain locales due to excessive sedimentation, localized channelization and flow modifications					

AOCS WERE INTENDED TO BE THE "WORST OF THE WORST" SITES IN THE GREAT LAKES

- The U.S.-Canada Great Lakes Water Quality Agreement (Annex 2 of the 1987 Protocol) defines AOCs as "geographic areas that fail to meet the general or specific objectives of the agreement where such failure has caused or is likely to cause impairment of beneficial use of the area's ability to support aquatic life." (GLNPO webpage)
- "Each of the 43 AOCs contains at least one BUI that represents an extraordinary problem that is measurably worse than most waters of the Great Lakes." (Ohio EPA delisting quidance, emphasis added)



THE BLACK RIVER AREA OF CONCERN

- Original AOC delineation was only the lower six miles
 With the prevalence of fish tumors, the designation of the lower six miles of the mainstem was warranted
- During the seating of the local Coordinating Committee, the delineation was expanded to include the entire Black River watershed because:
- Although, "... the primary portion of the AOC is defined to be the lower 6.5 miles of the river, significant sources of pollutants that contribute to the degradation of the AOC occur upstream."
- And any remedial measures proposed in the Stage 1 Plan "will focus on sources of pollution throughout the river basin."

From BR Stage 1 Report

The question is if the "significant sources of pollutants" are remaining and still contributing.



most of western LE watersheds.

The land uses in the upper watersheds of the Black River are not extraordinary and are similar to



0 20 40 60 MILES

Agricultural land use and

associated problems are





BUIS NOT APPLICABLE TO UPPER WATERSHEDS

Dredging

- Then, according to US ACE and Ohio EPA, all sediments from the federal navigation channel had to be placed in CDF
- Now, according to US ACE, all sediments from the federal navigation channel are 'eligible' for open-lake placement

Fish Tumors

- Then, DELTs = 11.1% and Bullhead liver rate = 32%
- Now, the BUI is In Recover Stage
 - DELTs = 0.45% and Bullhead liver rate = 11% in 2013
 Was 7% in 1998

BACTERIA SAMPLING

Bacteria Data 2006-2013

Average of all Lake Erie streams	952						
East Branch Black River	1389						
Black River-All streams	1104						
Black River-u/s Lacustuary	1030						
Black River-Mainstem	915						
West Branch Black River	896						
Other Nearby Streams							
Ashtabula AOC	3228 (BUI not Impaired)						
Ashtabula River-All streams	1815						
Huron River	1440						
Vermilion River	947						



Do not eat any fish from mainstem (this advisory was mainly listed due to prevalence of fish tumors)

Current

Mainstem fish advisories
to 1 meal/month & 1
meal/two months

 Advisories for upper areas meet BUI removal criteria

It is unlikely there was or is any impact from the upper watersheds to the mainstem for this BUI.

EUTROPHICATION/ALGAE Originally • Eutrophication -Current Eutrophication -Mainstem Mainstem DO = Unknown DO meets removal criteria Algae Algae French Creek French Creek Unknown No problems recorded East Branch East Branch Brentwood Lake Brentwood Lake: Dam impoundment causing removed, impoundment algae blooms Grafton WWTP - Algae blooms downstream gone Grafton WWTP – Phosphorus removal added • West Branch • West Branch Findley Lake algae blooms Phosphorus removal added

No impacts from upper watersheds to the mainstem for this BUI.

2











- Improvements have been documented
- Upgrades to treatment facilities
- Agricultural land use and its associated turbidity issue is no longer a cause for impairment

Discussion

