



Waukegan Harbor Citizens Advisory Group

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<http://waukeganharborcag.com>

Minutes of the October 20, 2016, CAG meeting held at Lilac Cottage, Waukegan Park District, Waukegan Illinois respectfully submitted by Penny Bouchard, Tom Chefalo and Susie Schreiber, acting as Recording Secretaries of the Waukegan Harbor Citizens' Advisory Group.

The October 2016, meeting of the Waukegan Harbor Citizens Advisory Group was called to order at 6:00 pm by Chair Susie Schreiber.

The Chair welcomed those in attendance and asked everyone to identify themselves and any group that they represent.

Attendance at the October 20th, 2016 CAG Meeting:

Penny Bouchard	Concerned Citizen
Larry Brewer	Concerned Citizen
Catherine Buchalski	IDNR
Tom Chefalo	Lake County Planning
Claudia Freeman	Waukegan Park District
Bill Lebensorger	GLRI Grant Administrator
Jamie O'Meara	Concerned Citizen
Margaret Renas	Delta Institute for City of Waukegan
Rich Romanek	National Gypsum
Anna Ruszaj	IDNR Coastal Zone
Susie Schreiber	Waukegan Harbor CAG, Illinois Audubon
Chris Tanner	Tanner Environmental Company
Fred Veenbaas	NRG Inc. – Waukegan Station
Barbara Waller	Concerned Citizen
Don Wilson	Concerned Citizen
Jeffrey Zuercher	USACE – Outer Harbor Dredge

GUESTS:

None

Additions to the Agenda

None

MINUTES

June minutes were presented to the Waukegan Harbor CAG membership. There were no modifications. Larry Brewer moved to accept the minutes. Claudia Freeman seconded the motion.

UPDATES

USEPA – Heriberto León – leon.heriberto@epa.gov

Johns Manville Superfund Site – no report

www.epa.gov/superfund/johns-manville

North Shore Gas (NSG)

North Plant

www.epa.gov/superfund/northshore-gas-north

Remedial Investigation (RI) work plan is being revised.

USEPA and NSG are continuing to finalize revisions to the existing Remedial Investigation (RI) work plan to allow for expanded sampling to the north, east, and south of the site, based on USEPA's review of the existing data collected by the gas company so far. Once approved, NSG will proceed with additional field sampling in accordance with the revised work plan. Such work is expected to be completed within a year. A draft RI report will be submitted to USEPA once this additional field investigation has been completed.

South Plant

www.epa.gov/superfund/northshore-gas-south

Additional field investigations needed to complete the Remedial Design.

USEPA signed the consent decree for construction of the remedy on September 21, 2016. The document is with the Department of Justice (DOJ) for approval and lodging in court. It is expected such actions will be done before the end of the year. The Waukegan Harbor CAG will check with Ross de Rosario, Project Manager, to see that the Work Plan is posted on the web site.

Outboard Marine Corp. site – no report

www.epa.gov/superfund/outboard-marine-corp

Yeoman Creek Landfill site

www.epa.gov/superfund/yeoman-creek-landfill

Current Remediation Activities:

The Yeomen Creek Remedial Group (YCRG's) contractor started the remedial action at a portion of the Terrace Nursing Home parking lot on September 28th. This is the Phase 2 Additional Protective Measures remediation work that has been planned for the last few months. The installation of the gas venting/extraction piping is currently underway. They are installing gas venting and extracting pipe. The entire project is anticipated to be completed by the end of this month.

In response to a previous request, the YCRG workgroup includes:

1. *Browning Ferris Industries of Illinois, Inc.*
2. *City of Waukegan, Illinois*

3. *Outboard Marine Corp.*
4. *Waukegan Community School District No. 60*
5. *Goodyear Tire & Rubber Company*
6. *Dexter-Midland Corporation*

IEPA

IEPA continues to work with JM on their portion of site remediation.

IDNR – Catherine Buchalski

IDNR found the Coastal Estuarine Land Conservation Program (CELCP) that NOAA has decided to defund. The special merit project uses a helicopter equipped with Time Domain Electromagnetic scanning. Along with Illinois Geological Survey, they can assess coastline sand thickness and depth. The coastline from Kenosha to Indiana would be surveyed. Dr. Theuerkauf will be able to talk more about this project. The flyover will take place at the beginning of 2017. It will take 9-12 months to interpret the data and produce maps for the baseline.

Question: Any analysis between accuracy of this method and others. No answer was provided.

The project is funded for one year. They would like to fund more years. The coastal geologist is funded by the ISGS (Illinois State Geological Survey) and the Coastal Zone program.

City of Waukegan - Margaret Renas

Margaret is the facilitator for the Waukegan Waterfront Working Group. This group was organized two years ago. It includes the City of Waukegan and its departments, the Waukegan Park District, and the Waukegan Harbor Port District. The facilitator coordinates activities and facilitates meetings. They will conduct community interaction with groups such as the Waukegan Harbor CAG. The facilitator will provide outreach and communication.

The Working Group is finalizing the Beach Management Plan. It will go to the Economic Development Committee on November 21st for approval. It will be adopted the same day if passed. The Waukegan Harbor CAG input hydrology information in August. Information on monitoring for populations of benthic, floristic, avian, plants of concern (POC) and waste collection was also provided.

If there are questions or concerns, Margaret will take back to share with the working group. It was stated that it would be beneficial to meet and share more information. Susie and Bill thought they would meet with Margaret.

CAG BUSINESS

USACE North Pier Seawall Repair Project Overview and Timeframe – Jeff Zuercher

Waukegan North Pier Repair Contract was awarded for \$2.3 million in September 2016 after a review of 7 bids. The contractor, Foundation Mechanics LLC, is going through the process of getting pre-construction submittals in and approved so that construction can commence this coming Spring 2017. The repair will cover the entire visible portion of the pier which includes 600 feet of pier. The pier will be

raised six inches with 18-24 inches over the current surface. They will add steel plates on the sides to protect the concrete.

When the repair is completed, it should look very similar to the South Pier work that was completed in the early 2000's. USACE will take into consideration the CAG request to look into getting the rest of the parapet wall face repaired along the North face of the area that is no longer a "pier", but is landlocked instead. It may require additional funding or re-working one of the options.

This is not a walking or fishing pier. There will be no ropes on the top of it because that encourages walking. There will be signs for 'no walking'. The pier has a light and ecoli monitoring by the Lake County Health Department. The project summary is attached to the minutes along with a map.

USACE Approach Channel and Outer Harbor dredging update – Jeff Zuercher

Morris Wallace Marine conducted the dredging last year and removed 125,000 cubic yards that went to sand mountain. They will use the same contractor this coming year to remove another 125,000 cubic yards. They are looking at the option to dredge the east end of the breakwater and extend the dredging further east and north. That could add 75-100 cubic yards. That would result in the creation of a sand trap that will help keep the channel open. At this point they working with IEPA on sampling that would allow the sand to be moved to Illinois Beach State Park if possible.

Question: Is there contingency in this contract to perform additional dredging if the channel becomes blocked during the pier repair? No.

The barge only uses a draft of 9 feet. They will dock inside of harbor daily. This process will not disturb the public. The work will likely be conducted in April and May. The dredge team will then move to Burns Harbor in June. In response to a question, it was mentioned the dredge will be quick because it is mechanical.

IDNR – Ania Ruszaj

Fish Sampling

Pre-dredge sampling in Waukegan Harbor during 2012 focused on the main/commercial harbor. Changes were made in the sampling protocol to get more composites in 2015. Sampling now includes the recreational harbor because fish move between the commercial harbor and that harbor. It should be noted that the analysis of the samples from the two harbors will remain separate. IEPA conducted the sampling analysis, and the IDNR Coastal Zone Program will finish the summary write-up.

In 2015, the fish habitat had changed. Black bullheads were not present in the main harbor. This is primarily the result of the destruction of their habitat from the dredging process.

The concentration of the contaminants in the samples may be below the measurement capability of the laboratory instrumentation. The laboratory has a problem with attaining low levels of PCBs, particularly in largemouth bass. A question was asked as to whether another laboratory could be used to test the samples. It was noted that the IEPA has a standard testing protocol that is used for all samples taken across the state to which the Waukegan Harbor sampling and testing must conform.

Preliminary results indicate that the levels of PCBs have been lowered, but have not fallen to the levels measured in the comparison harbor (Burns Harbor, Indiana).

The 2016 sampling was finished at the beginning of October. Two black bullheads were caught during this sampling round, but this is still not a large enough sampling number to make the decision about the safety of the species consumption. The fish sampling was conducted using the electric shock method.

Other species that were sampled included the following: sunfish, white sucker, rock bass and largemouth bass. Results of the 2016 testing will be available during Spring, 2017. At that time, it will be determined if there should be additional fish sampling and what steps should be taken, if any, to address the current fish consumption advisory.

The Illinois Fish Contaminant Monitoring Program (IFCMP) makes decisions about fish consumption advisories.

Susie Schreiber mentioned that the charter fishermen should be advised of the fish sampling results.

Benthos and Plankton

The pre-dredging sampling was conducted during 2012. The 2015 post dredging sampling results should be available very soon.

Benthos

Burns Harbor, Indiana was used as the comparison harbor. Based on preliminary results, it was determined that there is little difference between Waukegan and Burns Harbors. Therefore, formal delisting of the Benthos Beneficial Use Impairment (BUI) should begin in early 2017.

Plankton

There were no clear results because the plankton sample from Burns Harbor does not match the plankton sample from Waukegan Harbor. Therefore, it was determined that there should be toxicity comparisons between the two harbors. This alternative is only in preliminary discussion, and testing will not happen until sometime in 2017.

International Joint Commission (IJC) – Microplastic Recommendation

The IJC invites public comment on it's [Preliminary Recommendations on Microplastics in the Great Lakes](#) for binational, science, policy, and education solutions to microplastic pollution. Members of the public are invited to provide comments either [online](#) or by email at Commission@ottawa.ijc.org or Commission@washington.ijc.org until November 10, 2016.

Microplastics can enter the Great Lakes in multiple forms and through multiple pathways, including wastewater, manufacturing processes and runoff. They may enter the lakes as already-small debris such as plastic microbeads from cosmetics, pre-production pellets and waste from manufacturing processes, and microfibers shed from plastic-based textiles, or through larger plastic pollution like straws or bags that break down into smaller plastic particles. When microplastics enter the lakes they can be ingested by fish and other aquatic animals. These particles can harm aquatic species and can potentially be passed on to the humans who consume them.

The IJC acknowledges microplastics as a potentially significant threat to the Great Lakes ecosystem and human health, and the proposed recommendations reflect the significant knowledge gaps and need for further information to address causes and impacts of microplastics. The IJC's four recommendations:

- encourage a binational pollution prevention plan utilizing multiple approaches and tools
- propose developing science-based, standardized, binational monitoring and research into product lifecycles, human and ecological health impacts, and best prevention practices,
- advise governments to examine, promote, and support pollution reduction and prevention programs that are existing and effective, and
- advocate funding support for local education and outreach programs and organizations focused on pollution reduction and prevention.
- “Microplastic pollution in the Great Lakes can no longer be an ‘out of sight, out of mind’ issue. The good news is that microplastic pollution is wholly preventable, and the recommendations developed here are reasonably attainable,” said Gordon Walker, chair of the IJC’s Canadian Section.

“For once Canada and the US have the opportunity to take preventive action rather than responding after an issue has caused major ecosystem damage. The Commission is seeking feedback from the public and private sector to put forward sound, preventive recommendations,” said Lana Pollack, chair of the IJC’s US Section.

These four preliminary recommendations are based on the Commission’s consideration of findings and recommendations developed during a workshop of experts representing a broad range of sectors. The expert workshop was convened by the Commission during April 2016. [The final workshop report can be accessed online.](#)

The Commission is interested in public comments on the recommendations generally and that respond to the following questions:

1. Are the recommendations sound?
2. Are any important considerations overlooked?
3. Are there relevant examples from your community or business to consider?

The public’s input will be used in developing final recommendations to the Canadian and US governments.

Contacts:

Michael Toope	613-947-1420	toopem@ottawa.ijc.org
Frank Bevacqua	202-736-9024	bevacquaf@washington.ijc.org
Sally Cole-Misch	519-257-6733	colemischs@windsor.ijc.org

Links:

Go to ijc.org Hit the tab: News & Events. Go to Prevention of micro plastic.....
 Submit your comments online and provide feedback on the IJC’s Preliminary Recommendations
 Available same page: [Preliminary Recommendations on Microplastics in the Great Lakes](#)
 Available same page: [Microplastics in the Great lakes Workshop Report \(Final\)](#)

Preliminary International Joint Commission (IJC) Recent Great Lakes Forum’s Workshop on Concerns Background on Recommendations:

“Note” – wording below paraphrased and taken directly from IJC documents

- A. Potential to cause impacts to the Great Lakes /Ecosystem and human health

- a. All related documents to Microplastics in the Great Lakes are posted on the IJC website
 - b. 33 experts in attendance at the April IJC workshop
- B. Ten Recommendations
 - a. Reflect the overall views of the group – BUT –
 - b. Does NOT represent a consensus
 - c. Decided to develop 4 preliminary recommendations
 - i. [Public input requested on these 4 recommendations between Oct. 11 and November 10, 2016](#)
 - ii. Critical to properly manage the plastic material so they do not enter the environment
- C. IJC Recommends:
 - a. Parties develop a binational plan to prevent microplastics entering the Great Lakes using a combination of approaches and tools:
 - i. Science and research
 - ii. Policy
 - iii. Market based instruments
 - iv. Education and outreach
- D. Binational assessment of microplastics in the Great Lakes to inform decision making by:
 - a. Adopting standard sampling and analytical methods for microplastics
 - b. Develop transport model to determine the sources and fate of microplastics
 - c. Assess potential ecological and human health impacts
 - d. Invest in research for source reduction, improved recycling and reduced release of plastic pollution
- E. Existing Knowledge Gaps:
 - a. Sources, abundance and distribution in the environment
 - b. Rates and mechanisms by which plastic debris degrades
 - c. Understanding bioaccumulation of plastics and associated contamination found in food webs and potential eco-toxicological consequences
 - d. Potential impact on human health from fish consumption
- F. Need to do:
 - a. NOAA already has sampling and analytical protocols for microplastic particles greater than 0.333 mm – 5 mm
 - b. Must now develop sampling and analytical protocols for microplastic particles smaller than 0.333 mm
 - c. Innovative product development and research to reduce shredding of microplastic fibers from textiles
 - d. Develop fate and transport models to better understand exposure of microplastics. Lack of knowledge of the risk determination of microplastics in the Great Lakes noted.
- G. Pollution prevention
 - a. Compare and analyze existing programs and policies for the reduction and prevention of plastics and microplastics in the Great Lakes; promote the good models; provide funding and support for the programs/models
 - b. Possible model programs:
 - i. NOAA Marine Debris Program
 - ii. Associated Great Lakes Marine Debris Action Plan
 - iii. USEPA's Trash Free Waters Program
 - iv. Industry initiatives such as:

1. Operation Clean Sweep
2. Responsible Care Program (Chemical Industries of Canada)
- c. Improvements in Waste Management
 - i. [Municipalities providing lids for recycling bins and trash cans](#)
 - ii. Market based bans/fees for single use plastic items like bags and water bottles
 - iii. Extended producer responsibility (EPR) for products to their end life stage
- H. Education and Outreach
 - a. Provide funding support for local programs promoting reduction and prevention of plastics/microplastics in the Great Lakes
 - b. Proper disposal and recycling of plastic materials – change public behavior
 - c. Make informal decisions towards positive actions and changes
 - d. Create collaborative environment for the plastics industry and Great Lakes Stakeholders

Chicago Wilderness – Executive Committee report – Oct. 2016 meeting

- A. CW Business updates
 1. Operational year is January 1st through December 31st
 2. Annual dues of members billed and paid in January of each year
 3. CW Congress – sponsors still needed
 4. Priority Species Initiative: 12 species highlighted for 12 months
 - a. See CW website link for each species – well done site
 - b. Crowd Source funding – Text to Give for each species
 - 25% of funds go to CW
 - 75% of funds to lead partners for developing and sponsoring the 12 species
- B. Excellence in Environment Awards – next award submittal group is 2018
 1. Like the first Bowen Park CW restoration award where the Waukegan Park District and Waukegan Harbor CAG GLRI work received the Bronze level recognition
 2. In 2018 the Waukegan Park District is encouraged to submit again to gain higher status award after the continuing improvements which have occurred since the initial reward was received
 - a. Both Roosevelt and Bowen Parks would be good candidates
- C. Oak Ecosystems – Chris Mulvaney - CW Conservation director
 1. Key research done by: Ed Collins – McHenry County Conservation District and Andrew Bunting – Chicago Botanic Gardens
 2. Full version of report and Executive Summary are on the CW website
 3. The research includes layers of vegetation mapping
 - a. 1830's – Illinois Natural areas inventory by township for whole state
 - b. 1930's - Photographic aerials for CW counties, townships, cities etc. used
 - c. Current – GIS maps and tools
 - d. 2017 – finish remnant Oak Ecosystem mapping
 - e. CW will select 5 to 6 test sites and will gather volumes of data in them
 - Question: Could Bowen Park be one of them based on GLRI work and the many data sets gathered before and during the GLRI grant process
 - f. 70% of remnant Oaks are on private land
 - Develop Land Owners/Managers focus strategy

- Bring larger Land Owners/ Managers together next spring to develop and implement quality criteria and standards for Oak Ecosystem management

Chicago Wilderness (CW) – Monarch Butterfly Conservation Project

The Monarch Butterfly is one of the twelve species CW is promoting as a special yearlong conservation project throughout the Chicago region collar counties of lower Michigan, Indiana, Illinois and southern Wisconsin. The monarch is considered the flagship species for butterflies in North America and is being called the “Gateway Bug”.

CW is building special messaging, enlarged and innovative public and private engagement opportunities, and in depth monitoring tools. Their research goals include evaluating how monarchs interact within an urban setting, evaluating on how the Monarchs respond to the greatly increased habitat sites being created and how to obtain enough quality seed for the entire CW area. Density, productivity and migratory movements are part of the research. The goal for 2020 is to have 225 million monarchs on the ground.

1st Annual Hawkfest – Lake Forest College sponsored

Friday evening October 14th and Saturday October 15th created a unique opportunity for the general public to join experts on the official raptor migration count along the Lake Michigan shoreline using Fort Sheridan, the Waukegan Dunal Areas and the Swimming Beach, and Illinois Beach State Park. We do not have a report on the success of this event in time for the Oct. CAG meeting. It will be presented at the November, 2016 meeting.

Chicago Metropolitan Agency for Planning – CMAP 2017 and forward - goals

- A. CMAP Comprehensive Regional Plan
 1. Currently they are using CAMP 2010 Plan
 2. They will soon be using “On to 2050” with an emphasis on Climate Change and Stormwater
- B. Big Ideas Forum – these are meetings to be held over next 8 months
 1. Car ownership - have we reached peak driving load – what type of road lane configuration will be needed in future– less?
 2. Demographics of the region now and in 2050
 3. Look to millennium population and older population needs
 4. Trend of suburbanization – growing region in a low density format
- C. See Emerging Priorities for “On to 2050”
 1. Economic conditions
 2. Inclusive growth
 3. Housing
 4. Transportation Infrastructure – Biking and walking importance*
 5. Goods movement and Sustainable Transportation funding
 6. Reinvestment and Infill
 7. Conservation, Flooding and Climate Change*
 8. Collaboration and Capacity
- D. Consider presentation on several of the above chapters in the On to 2015 Plan to the Waukegan Harbor CAG - * above

New Business

Waukegan Harbor Citizens' Advisory Group – Nominating Committee

The nominating committee, made up of Claudia Freeman, Tom Chefalo and Barbara Cornew, is actively engaged in preparing a slate of officers to serve on the Executive Committee for the coming year. As they work to build the slate they are considering current and ongoing Waukegan Harbor CAG Area of Concern community and regional goals, plus Lake Michigan watershed issues. Nominations are open until November 15, 2016. Anyone interested in serving is encouraged to contact the Nominating Committee and place their name on the list for consideration.

Circumnavigation of Lake Michigan – 2 Girls in homemade dugout canoe

Co-sponsored by Lake Forest College Department of Environmental Studies and Lake Forest Openlands, two Indiana college graduates who painstakingly handmade their own dugout canoe will present their yearlong plus odyssey of their full circumnavigation of Lake Michigan on **November 15th at 7 p.m. in the Lily Holt Memorial Chapel on the Lake Forest College campus.** This is an excellent program, and well worth taking middle and upper school children along with all adults to hear. Check with Lake Forest Openlands for tickets. The event is free.

State of Lake Michigan Meeting – 2017 – Save the date!

Wisconsin will be hosting the 2017 State of Lake Michigan meeting in Green Bay during the first week of November, 2017. This is always a superb opportunity to hear of the ongoing research, address current issues of importance and network with colleagues from the public and private sectors working on Lake Michigan projects. Wisconsin, Michigan, Indiana and Illinois are the caretakers of Lake Michigan. The Waukegan Harbor CAG plays an important part in this massive effort to restore and protect our wonderful freshwater sea – Lake Michigan. Please consider putting it on your calendar to attend.

Old Business

By-Laws

A full review of the Waukegan Harbor CAG By-Laws is in progress and the updated DRAFT will be presented for discussion at the January 2017 CAG meeting.

Announcements

None

Adjournment

A motion to adjourn the meeting was made by Claudia Freeman. The motion was seconded by Penny Bouchard and the meeting was adjourned by voice vote.

Web Sites

<http://www.waukeganharborcag.org>

The Waukegan CAG website.

<http://www.epa.state.il.us/environmental-justice>

Illinois EPA – Environmental Justice website.

<http://www.ilenviro.org>

Good listing of all environmental bills in the ILL House & Senate.

<http://www.glc.org>

Great Lakes Commission.

<http://www.binational.net>

Great Lakes Binational Toxics Strategy – 2002 Annual Progress Report

<http://www.lkmichiganforum.org/>

The Lake Michigan Forum

<http://www.epa.gov/glnpo/lakemich>

Lake Michigan Lake Wide Management Plan (LaMP 2000)

<http://wi.water.usgs.gov/lmmcc/index.html>

Lake Michigan Monitoring Coordinating Council

<http://www.epa.gov/lakemich>

Lake Michigan Sensitive Areas

<http://www.cciw.solec>

<http://www.epa.gov/glnpo/solec>

State of the Great Lakes – SOLEC 2002 full report.

<http://www.gvsu.edu/wri>

Annis Water Resources Institute

<http://www.epa.gov/OST/GLI/glimixqa.html>

A document on Bioaccumulative Chemicals of Concern (BCCs).

<http://www.glerl.noaa.gov/pubs/brochures/wlevels/wlevels.html>

Great Lakes Water Levels

<http://www.sph.umich.edu/ehs/umaql/mass.html>

Lake Michigan Mass Balance Study

<http://www.epa.gov/glnpo/lmmb>

Lake Michigan Mass Balance

<http://biology.usgs.gov/S+t/noframe/x186.html>

Zebra Mussels in Southwestern Lake Michigan

CAG Members

Abbott Laboratories

Akzo Nobel

Alliance for the Great Lakes

Bombardier Recreational Products

Carol Dorge, Attorney

City of North Chicago

City of Waukegan

College of Lake County

Commonwealth Edison

EJ & E Railway

Great Lakes Sport Fishing Council

Illinois Audubon Society

Johns Manville

LaFarge Corporation

Lake County Audubon

Lake County Chamber of Commerce

Lake County Planning, Building and Development Dept.

Lake County Health Department

Lake County Stormwater Management Agency

Larsen Marine, Inc.

LFR Levine • Fricke

Liberty Prairie Conservancy

Midwest Generation

National Gypsum

North Shore Gas

North Shore Sanitary District

Outboard Marine Corporation

Salmon Unlimited

CAG Members (continued)

Waukegan Charter Boat Association

Waukegan Main Street

Waukegan Lakefront Development Corporation

Waukegan Park District

Waukegan Port District

Waukegan Yacht Club

Concerned Citizens

CAG Associates

Chicago Metropolitan Agency for Planning

Delta Institute

Illinois Citizen Action

Illinois Depart. of Natural Resources

Illinois Environ. Protection Agency

Illinois-Indiana Sea Grant

Illinois Lake Management Association

Illinois Pollution Control Board

International Joint Commission

Maritime Administration

U.S. Army Corps of Engineers

U.S. Environ. Protection Agency

U. S. Fish and Wildlife

University of Illinois- Marine Extension

Waukegan Public Library

Concerned Citizens



Waukegan North Pier Resurfacing

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Project Type

Operation and Maintenance Construction

Authority

River and Harbor Act of 14 June 1880

Project Description

Waukegan North Pier extends out from the land to help form the mouth of the harbor inside of the protection provided by the North Breakwater. This structure is constantly in and out of the water due to the lake fluctuation and has severely deteriorated over the years. This project will put 18-24" of new concrete on top of the old structure and include steel face plates to help prevent future deterioration.

Current Status:

Project has been awarded to Foundation Mechanics, LLC.

Cost

Total Project Cost \$ 2.36 million

Construction

Cost: \$2.186 million

Contractor: Foundation Mechanics, LLC

Length of Resurfacing: 600'

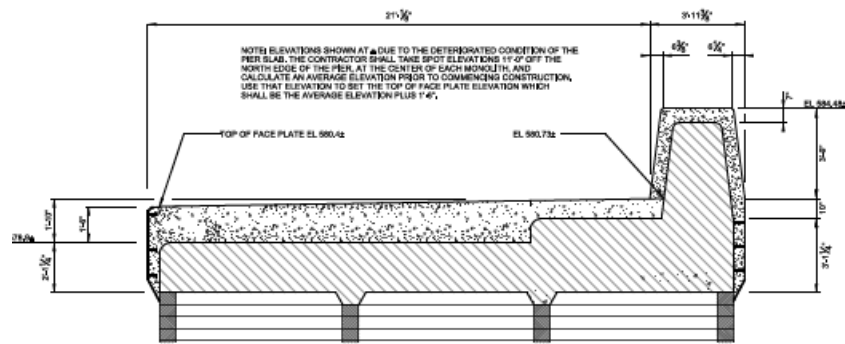
Contract Duration: 300 Calendar Days from NTP

Project Timeline

Contract was awarded on September 30, 2016. The next step is for the contractor to get a Notice to Proceed (NTP), which is expected to happen in early November. Then, the contractor can begin working on submittals and all the pre-construction efforts needed to get underway. It is expected that physical construction will begin after March 15, 2017 and be completed before September 30, 2017.



The end of the North Pier shows the spalling concrete and exposed rebar near the coast guard light.



Side view of the new profile to be constructed.

U.S. Army Corps of Engineers, Chicago District 231 S. La Salle St., Ste. 1500 Chicago, IL 60604

<http://www.lrc.usace.army.mil/>

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Waukegan North Pier

