

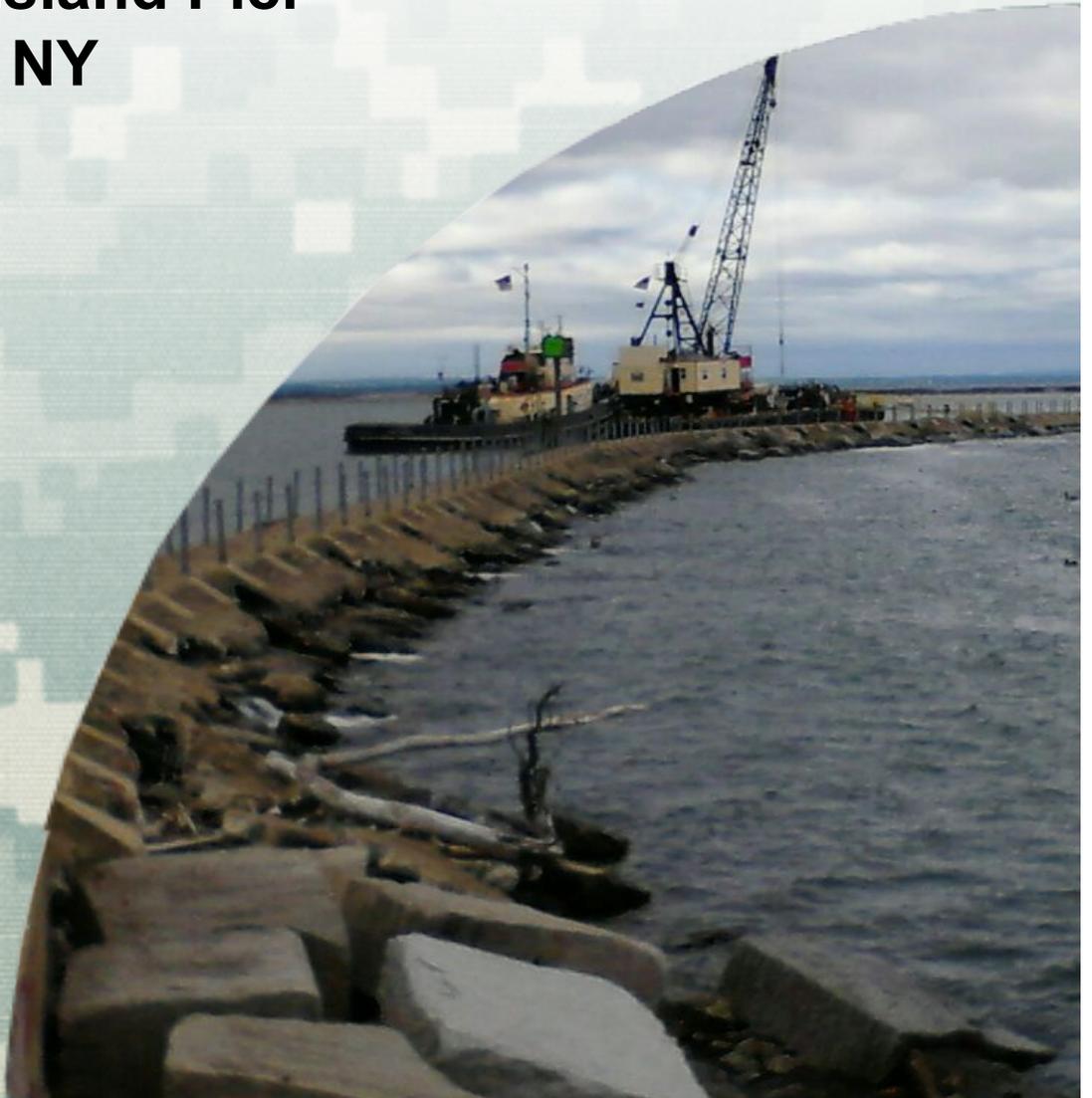
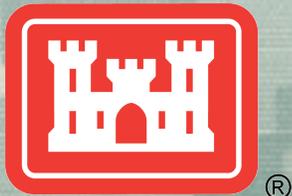
FY14 LRD Lock Maintenance Meeting 11-13 February 2014

Rehabilitation of the Bird Island Pier Black Rock Lock, Buffalo, NY

Paul Bijhouwer, PE, PMP

Keith Jones, PE

Buffalo District, Operations Branch



BIRD ISLAND PIER REHABILITATION PROJECT

Primary Project Partners: City of Buffalo, Niagara River Greenway Commission, US Army Corps of Engineers - Buffalo District

Timeline: Planning/Coordination Jan-Sep 2012, Construction Oct-Nov 2012 and May-Aug 2013

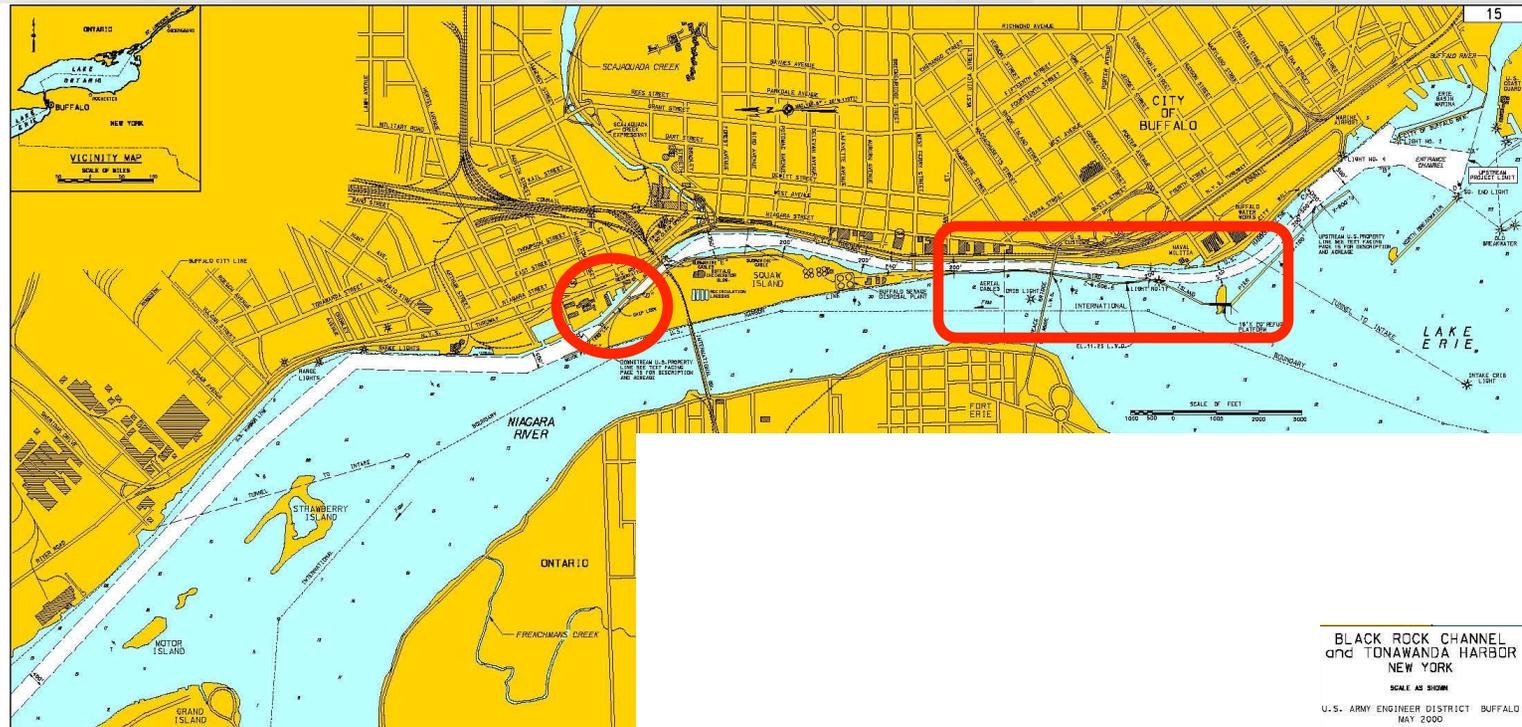
Cost: \$1.46 million in 2012/2013 grant funds from the Niagara River Greenway Commission, awarded to the City of Buffalo and provided to the Army Corps of Engineers

Other Partners: Buffalo State Research Station, Iroquois Bar Inc. (stone, concrete/shot-crete, equipment and tech support), and Superior Gunitite Inc. (tech support)



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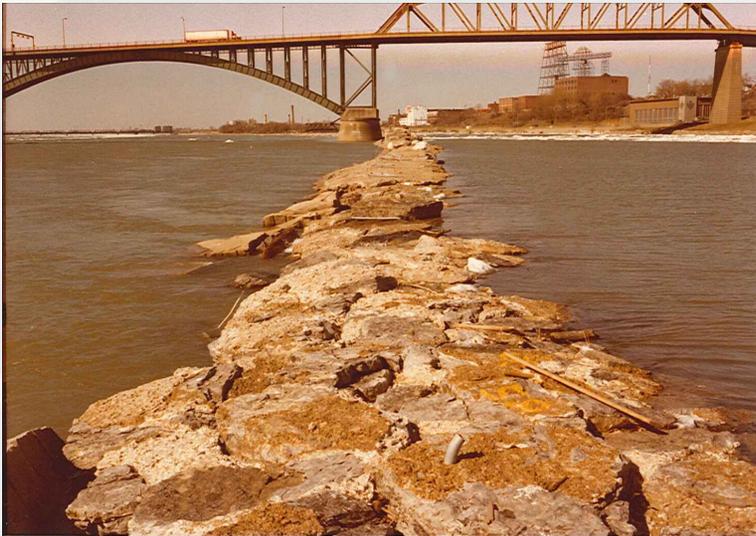


Project Map – Black Rock Channel
and Black Rock Lock



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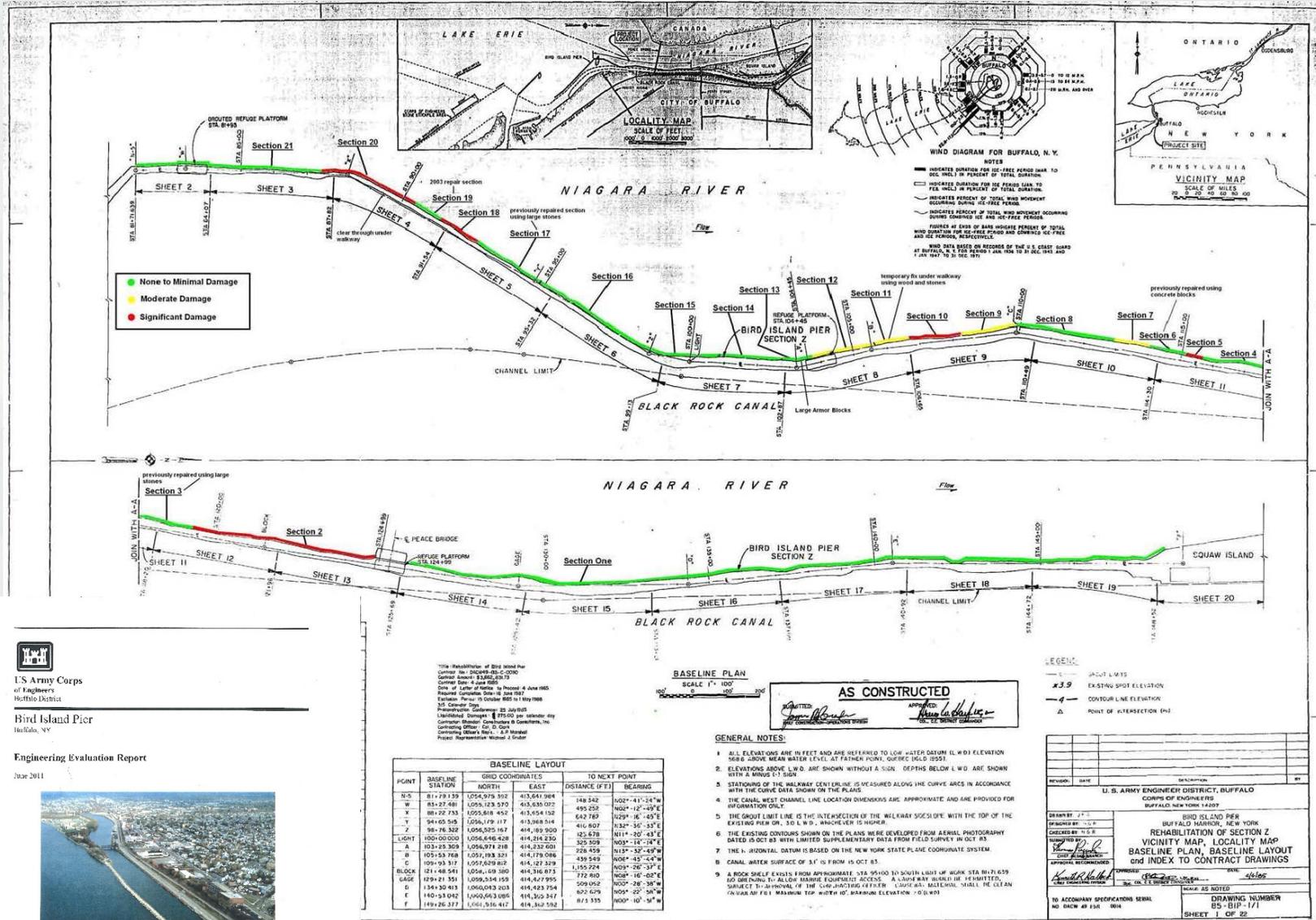
BIRD ISLAND PIER REHABILITATION PROJECT



Ice, waves and flow in the Niagara River caused undercutting and loss of stone to the structure. This led to damage to the overlying recreational walkway.



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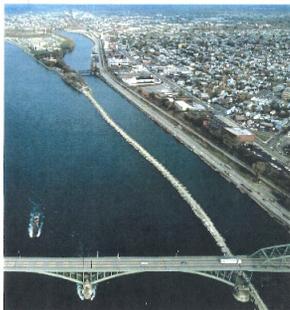


U.S. Army Corps of Engineers
Buffalo District

Bird Island Pier
Buffalo, NY

Engineering Evaluation Report

June 2011



BIRD ISLAND PIER REHABILITATION PROJECT



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
441 G STREET NW
WASHINGTON, D.C. 20314-1000

CECW-PR

APR 2 2012

MEMORANDUM FOR SUE DISTRIBUTION

SUBJECT: Implementation Guidance for Section 111 of the FY12 Energy and Water Development Appropriations Act, Contributed Funds

1. Section 111 of the Fiscal Year 2012 Energy and Water Development Appropriations Act (FY 12 E&W DAA) (Public Law 112-74, Division B) amends the contributed funds authority codified in 33 U.S.C. 701h. It expands this authority, which allows the U.S. Army Corps of Engineers to accept voluntarily contributed funds from States and political subdivisions, to include all water resources development project purposes. In addition, it expands the contributed funds authority to cover all phases of a project from study and design for authorized studies through construction and operation and maintenance for authorized projects. Further, it defines "States" as the several States, the District of Columbia, commonwealths, territories, and possessions of the United States, and Federally recognized Indian tribes. Finally, Section 111 requires Committee notification prior to the initiation of negotiations for the acceptance of contributed funds under 33 U.S.C. 701h. A copy of 33 U.S.C. 701h is enclosed.

2. Applicability. The guidance is applicable to all HQUSACE elements, major subordinate commands (MSC), districts, laboratories and field operating activities (FOA) having Civil Works functions. This guidance supersedes the guidance in ER 1165-2-30, Acceptance and Return of Required, Contributed or Advanced Funds, dated 30 October 1998, as it pertains to Contributed Funds and CECW-P Memorandum, Subject: Contributed Funds, dated 2 July 2007.

3. Policies

a. Contributed funds are those funds above any statutorily required non-Federal cost share provided voluntarily by a State, or political subdivision thereof, with no credit or repayment authorized for such funds. "States" means the several States, the District of Columbia, the commonwealths, territories, and possessions of the United States, and Federally recognized Tribes.

b. While 33 U.S.C. 560 provides separate contributed funds authority related to authorized navigation projects, 33 U.S.C. 701h is a comprehensive authority covering all project purposes that will be used for all proposals involving contributed funds, except for those proposals traditionally considered pursuant to section 205 of WRDA 1992 (33 U.S.C. 2325) and section 225 of WRDA 1992 (33 U.S.C. 2328). Proposals for the acceptance of contributions pursuant to



DEPARTMENT OF THE ARMY
BUFFALO DISTRICT
1778 NIAGARA STREET
BUFFALO, NY 14207-3189

CELRB-DE

17 May 2012

MEMORANDUM THRU Commander, Great Lakes and Ohio River Division (CELRD-DU, BG Margaret W. Burcham), 550 Main St, Room 10-524, Cincinnati, OH 45202-3222

FOR Deputy Chief (Civil Works), HQUSACE, (Attn: Ms. Yvonne J. Prettyman Beck, CECW-1RD), 3D94 441 G Street NW, Washington, DC 20314-1000

SUBJECT: Contributed Funds for the Bird Island Pier Repair Project, LRB, Buffalo, NY

1. Enclosed is information in support of efforts to bring to the Buffalo District contributed funds in the amount of \$750,000 offered by the City of Buffalo. The origin of funds is a grant from the Niagara River Greenway Commission. The funds will be used by the District in calendar year 2012 to make repairs to approximately 375 feet of the Bird Island Pier on the Niagara River immediately upstream of the International Peace Bridge.

HQUSACE guidance dated 2 April 2012 titled, "Implementation Guidance for Section 111 of the FY12 Energy and Water Development Appropriations Act, Contributed Funds" was followed for this submittal. Included are: District Information Paper, sponsor letter, and draft committee notification letters.

2. POC for this submittal is Joshua J. Feldmann, who can be reached at 716-879-4393 or via e-mail at: joshua.j.feldmann@usace.army.mil.

STEPHEN H. DALLIS
LTC, FN
Commanding



DEPARTMENT OF THE ARMY
BUFFALO DISTRICT
1778 NIAGARA STREET
BUFFALO, NEW YORK 14207-3189

CELRB-PM-PL

18 SEP 12

MEMORANDUM FOR RECORD

SUBJECT: Environmental Documentation in Support of Repairs to the Bird Island Pier, Black Rock Canal and Tonawanda Harbor project, Buffalo, NY

1. The City of Buffalo proposes to contribute funds to be used by the District in calendar year 2012 to make repairs to approximately 375 feet of the Bird Island Pier on the Niagara River immediately upstream of the International Peace Bridge.

2. I have reviewed the scope and nature of the work and determined that it is routine operations and maintenance of a navigation structure. ER 200-2-2, Procedures for Implementing NEPA, Section 9 provides 17 actions which are categorically excluded from NEPA documentation. The first, Section 9(a), clearly covers the proposed action.

Activities at completed Corps projects which carry out the authorized project purposes. Examples include routine operation and maintenance activities, general administration, equipment purchases, custodial activities, erosion control, painting, repair, rehabilitation, replacement of existing structures and facilities such as buildings, roads, levees, groins and dikes, and installation of new building utilities, or roadways in developed areas.

3. Therefore, this action is categorically excluded. Even NEPA documentation under the said provision. Regarding compliance with the Clean Water Act and the Rivers and Harbors Act, the proposed activity meets the conditions of USACE Nationwide Permit No. 3 (NWP03) for maintenance activities. The NYS Department of State has already concurred with the Corps consistency determination for NWP03 and the NYS Department of Environmental Conservation has already granted Section 401 water quality certification for NWP03. Accordingly, no further environmental documentation is required.

4. My point of contact for this memorandum is Mr. Keith Jones of the Buffalo District Operations Branch. He can be reached at (716) 879-4327 or by e-mail at keith.jones@usace.army.mil.

DAVID ROMANO, PMP
Chief, Planning Branch



DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY
CIVIL WORKS
160 ARMY PENTAGON
WASHINGTON DC 20315-9108

SEP -6 2012

Honorable Dianne Feinstein
Chairman, Subcommittee on Energy
and Water Development
Committee on Appropriations
United States Senate
Washington, D.C. 20510

Dear Madam Chairman:

This letter is to inform you that the Department of the Army is planning to initiate negotiations for accepting contributed funds for Black Rock Canal and Tonawanda Harbor project with the City of Buffalo, New York which is the non-federal sponsor for this project. The purpose of these negotiations is to enter into a memorandum of agreement (MOA) that would allow the non-federal sponsor to provide all funds needed to perform repairs and related activities on a stone structure that supports the upper pool for the Black Rock Lock.

At this time the proposed work will consist of repairs to approximately 375 feet of the stone structure. The Army Corps of Engineers (Corps) expects to complete this work during FY 2013 at an estimated cost of \$750,000. The non-federal sponsor is offering to contribute all funds needed to perform this work.

The non-federal sponsor is offering to provide these contributed funds voluntarily and understands that the MOA will recognize that no repayment or credit for such funds is authorized. In addition, the non-federal sponsor understands that the MOA will provide that acceptance of these funds by the Department of the Army will not constitute or imply any commitment to budget or appropriate funds for this project in the future. Therefore, execution of the MOA will not represent or give rise to obligations of the United States.

I am sending an identical letter to the Honorable Rodney Frelinghuysen, Chairman of the House of Representatives Appropriations Subcommittee on Energy and Water Development.

Very truly yours,

Jesse Darry
Jesse Darry
Assistant Secretary of the Army
(Civil Works)

CC: Honorable Lamar Alexander
Ranking Member



BIRD ISLAND PIER REHABILITATION PROJECT

Repair alternatives considered:

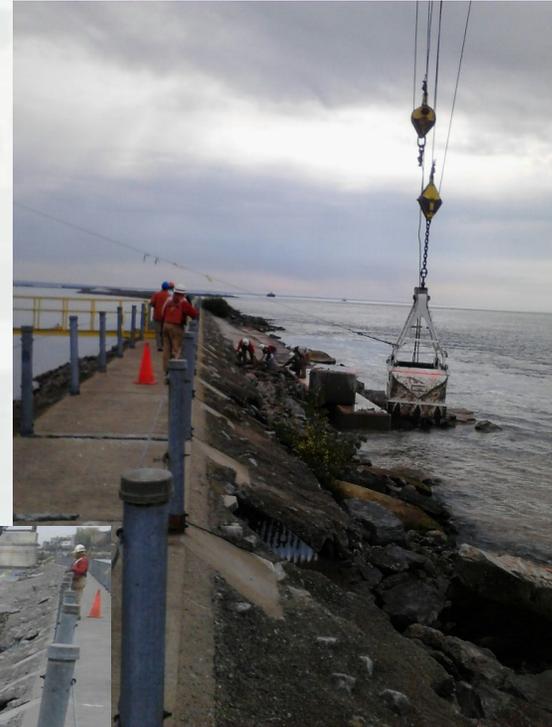
Peace Bridge to the 2nd Refuge Platform (2200' in length) – Repair method was known based on smaller repair projects completed by the LRB Floating Plant in 2006 and 2009. Eight (8) ton precast concrete toe block was placed, with stone fill and reinforced concrete paving.

2nd to 3rd Refuge platforms (2200' in length, with 1600' inaccessible to the Floating Plant due to shallowness, rock and swift current on Niagara River side) – Five PDT scoping meetings held Jan-April 2012 to decide on best repair method(s). Alternatives considered included: i) Constructing a road on channel side adjacent to BIP for heavy equipment access, ii) Polyurethane foam to fill voids under walkway, iii) Helicopter placement of 2-6 ton stone, iv) Buggying concrete to fill voids and concrete bags, v) *Pumped concrete (shot-crete) operation, with the LRB Floating Plant staged across from the Buffalo State Research Station and shot-crete pumped and placed up to 1600' distant to repair the 3rd Refuge Platform and another 800' of undercut and damaged structure.*



BIRD ISLAND PIER REHABILITATION PROJECT

Peace Bridge to the 2nd Refuge Platform
(2200' in length) – Full/heavy repairs



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BIRD ISLAND PIER REHABILITATION PROJECT

2nd Refuge Platform to 3rd Platform
(2200' in length): Shot-crete repairs



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Accomplishments:

- Full/heavy repairs: 728 lineal feet of repair upstream of the Peace Bridge, including 8 ton concrete toe block, stone fill and reinforced concrete slope paving
- Misc. stone placement: 400 tons of small to medium sized stone placed in undercut areas and around culvert ends
- Shot-crete repairs:
 - 243 cubic yards placed over 7 days (34.5 CY/day), plus 2 day demo prior, to repair 800 lineal feet between the 2nd and 3rd (southernmost) refuge platforms. Pumping distance of 1600 ft was "record setting" per our supplier/trainer Superior Gunnite.
 - \$220,000 for materials, equipment lease and training contract, plus 9 days of Floating Plant at \$14,000/day, or \$126,000. Therefore, total for shot-crete repairs was \$346,000
 - $\$346,000/243 \text{ CY} = \$1,424/\text{CY}$
 - $\$346,000/800 \text{ LF} = \$433/\text{LF}$
 - Floating Plant crew gained new skill set in shot-crete placement



BIRD ISLAND PIER REHABILITATION PROJECT



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