

**Toledo Harbor Dredging Task Force  
COMMITTEE MEETING MINUTES**

**Date: September 8, 2011  
Lake Erie Center- Oregon, OH**

**Attending Committee Members:**

Mike Pniewski, USACE  
Joe Cappel, TLCPA  
Gail Hesse, OLEC  
Kristin Gardner, OLEC  
Elizabeth Wick, Ohio EPA-NWDO  
Kelly Tubbs, Kuhlman Corporation  
Sandy Bihn, Lake Erie Waterkeepers  
Paul Pacholski, Lake Erie Charter Boat Assoc.  
Tim Murphy, City of Toledo  
Paul Roman, City of Oregon  
Ann Longsworth Orr, Sen. Sherrod Brown  
Jane Ruvolo, Rep. Marcy Kaptur  
Andrew Lorenz, Rep. Bob Latta  
Tom Hays, Lucas County  
Eric Neff, ODOT (phone)

**Guests:**

John Hull, Hull & Associates, Inc.  
Kelly Bensman, Hull & Associates, Inc.

**Committee Members Not Present:**

Paul Toth, TLCPA  
Matt Sapara, TLCPA  
LTC Stephen Bales, USACE  
Ron J. Kozlowski, USACE  
Mark Locker, ODOT  
Jeff Reuter, OSU Stone Lab  
Everett Woodell, Rep. Robert Latta  
Eileen Granata, ODOD  
Peter Ujvagi, Lucas County  
Brooke Furio, USEPA, Region 5  
Paul LaMarre, TLCPA  
Tim Schetter, Toledo Area Metroparks  
Rick Unger, Lake Erie Charter Boat Assoc.  
Ron Kozlowski, USACE (videoconference)  
Craig Forgette, USACE (videoconference)  
Scott Pickard, USACE (videoconference)  
David Romano, USACE (videoconference)  
Ken Pisado, USACE (videoconference)  
Josh Feldmann, USACE (videoconference)  
Gilda Mitchell, TLCPA  
Linda Greenwood, Sen. Rob Portman  
Dick Bartz, USGS  
John Watkins, ODNR  
Monica Drake, ODOT  
David Knight, Great Lakes Commission  
Cheryl Rice, Lucas County USDA NRCS  
Mary Knapp, U.S. Fish and Wildlife Service

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The meeting began at 2:20 p.m.

Ms. Gardner introduced Gail Hesse as the new Director of the Ohio Lake Erie Commission. Ms. Hesse discussed the GLRI funding received by Ohio EPA's Phase II Phosphorus Task Force to build on the April 2010 report as well as effort to include agribusiness representatives on the Task Force.

The Committee approved the minutes from the April 2011 meeting. Mr. Cappel welcomed new Task Force member, Mary Knapp of the U.S. Fish and Wildlife Service.

Ms. Bensman and Mr. Hull discussed the results of the June 2011 Toledo Harbor Sediment Management and Use Public Forum. A report documenting the forum activities is available online at <http://www.lakeerie.ohio.gov/GLRI/ToledoHarbor/ToledoGLRI.aspx>.

Ms. Bensman discussed the attached September 8, 2011 memorandum regarding the Task Force's Scoring of Technical Criteria for Use in the Evaluation of Toledo Harbor Sediment Management and Use Options. One member from each organization shall complete the worksheet and assign weighting factors to categories of technical criteria category that will be used in the technical team's evaluation of criteria, so that the various options/alternatives can be ranked and a consensus can be reached from the Task Force as a group.

A second public forum will be held in the first quarter of 2012 to present the draft criteria and measurable units for each criterion to the public and solicit input. The proposed objectives of the second forum are to solicit comment and stakeholder input on the proposed draft options, present the process used to rank technical factors identified during the study, and to obtain input on the methodology so any modifications can be made to the methodology, as appropriate, prior to finalizing the prioritization.

Mr. Hull discussed the preliminary evaluation of the cumulative volume of sediment dredged from the Federal Channel between 2001 and 2010, which is illustrated on the attached Figure 1. The largest volumes of sediment dredged from the Lake Channel were between station 400+00 and station 450+00 and between station 619+00 and station 664+00, with a center of gravity at station 593+00. The largest volumes of sediment dredged from the River Channel were between station 120+00 and station 150+00 and between station 350+00 and station 388+00, with a center of gravity at station 146+00. The members requested some proposed alternative locations (i.e. the Lighthouse, Turtle Island, etc.) be added to Figure 1.

Mr. Hull initiated a discussion regarding ideas for future potential GLRI projects. Suggested ideas included technologies that would augment open lake disposal practices by keeping material in-place, agricultural/upland sediment use projects, and placement options that included habitat restoration with fish spawning areas. Mr. Cappel and Mr. Pniewski indicated that shovel/construction ready GLRI projects would have a better chance at being funded.

Ms. Bihn updated members on the June 2011 Lake Erie Improvement Forum and the formation of a community group similar to the Grand Lake St. Marys Restoration Commission. She said the new group is in the process of establishing a steering committee and is working to involve businesses in the group.

Mr. Pniewski provided an update regarding the status of the Corps' sediment/feasibility studies. Regarding the status of the habitat restoration unit Section 204 project, he indicated they are transitioning to the general investigation study. USACE and the City of Toledo executed a cost share agreement. The Corps is currently collecting geotechnical data near 11 or 12 locations identified in the Section 204 study, with most sample collection being complete by the Lighthouse. He said they started dredging the federal Channel on August 27. The Corps will have an idea of the planned 2012 dredging after this year's dredging is completed and they receive next year's budget.

Mr. Murphy updated the Task Force on the activities planned for the City of Toledo's Penn 7 & Penn 8. He stated that the Col. James M. Schoonmaker/Willis B. Boyer Museum Ship will be moved to the Marina District and about 60-70 cubic yards will need dredged near the old intake at the ACME power plant. The material dredged from this area is proposed to be placed in Penn 7 and 8 and mixed with the City of Toledo's leaf compost, which will help preserve capacity in Facility 3. The City's Engineering department is currently surveying Penn 7 and Penn 8 to determine if sufficient capacity exists at these locations.

Mr. Cappel informed the Task Force of his discussions with the Ohio Sea Grant Division of Ohio State regarding forming a Harbor Technical Advisory Committee (HTAC). The HTAC has been successful in Superior, WI and Duluth, MN. Ohio Sea Grant has offered some services, but would not provide funding or administrative support. Mr. Cappel informed the group that Martin & Associates is completing an economic benefits study of the Great Lakes Ports, which is currently being peer reviewed by three different Universities. Mr. Cappel stated the final report should be completed in the next couple of months.

Mr. Cappel discussed the frequency of regular Task Force meetings and suggested that the meetings be held on a quarterly basis. He suggested the next meeting be held in early December, prior to the next forum which will be held in January or February of 2012.

There being no further business, the meeting concluded at 3:53 p.m.



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## Memorandum

TO: Toledo Harbor Task Force

FROM: John Hull, P.E. and Kelly Bensman

DATE: September 8, 2011

RE: Scoring of Technical Criteria for Use in the Evaluation of Toledo Harbor Sediment Management and Use Options; TPA044.100.0011

This Memorandum has been prepared to provide an overview of the process that will be implemented to develop weighting factors for adjusting technical criteria scores during the evaluation of sediment management and use options for the Toledo Harbor as part of the Toledo-Lucas County Port Authority and the Ohio Lake Erie Commission "Great Lakes Restoration Initiative Project; EPA Grant # GL-00E00523-0". Table 1 provides a list of sediment management and use alternatives that will be evaluated.

### SCORING OF TECHNICAL CRITERIA FOR TOLEDO HARBOR SEDIMENT MANAGEMENT AND USE OPTIONS EVALUATION

TABLE 1

#### LIST OF SEDIMENT MANAGEMENT AND USE OPTIONS

Option/Alternative Category	Option/Alternative
In-Water	Submerged Aquatic Habitat Restoration Unit
	Emergent Habitat Restoration Unit
	Confined Disposal Facility
Near-Shore	Wetland Restoration
	Shoreline Protection
Upland	Brownfields, Landfill Caps, and Mine Reclamation
	Agricultural Improvements
	Inland Monofill
Products	Manufactured Soil, Asphalt, Concrete, and Construction Materials, Structural Fill, and Other

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Based on the information gained from the initial public forum, the various options/alternatives will be evaluated using mandatory criteria (e.g. cost, capacity, feasibility, schedule, habitat, regulatory, etc.) and balancing criteria (location, end-use, etc.). A matrix will be developed to score the dredge material management and use options across six different major categories of technical criteria as follows:

- Human Benefits (e.g. recreation, flood protection, aesthetics, economic development)
- Ecological Benefits (e.g. improved hydrologic functions, habitat enhancements, improved water quality)
- Economic Benefits (e.g. revenue generating activity, job creation, cost savings)
- Feasibility (e.g. technical, logistical, institutional, constructability)
- Implementation Costs (e.g. dredging, transportation, maintenance, monitoring)
- Environmental Impacts (e.g. location, construction, post-construction)

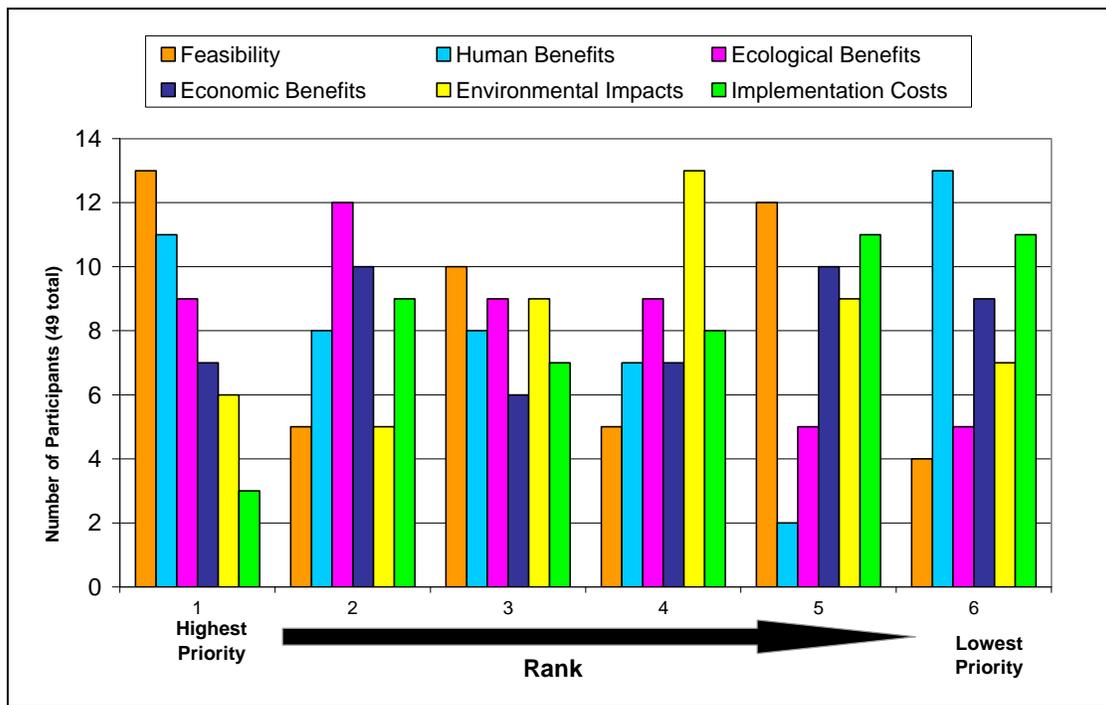
These general categories of technical criteria will be assigned raw scoring factors by the technical team and will be assigned weighting factors by the Task Force. The weighting factor determines the relative importance of each technical criteria category evaluated for sediment management and use options. The weighting factors will be used in the technical team's evaluation of criteria, so that the various options/alternatives can be ranked and a consensus can be reached from the Task Force as a group.

In deciding on weighting factors for the categories of technical criteria, the Task Force members may consider the results of the stakeholders' prioritization of the criteria obtained during the initial public forum. Figure 1 provides a graph that illustrates the results of the stakeholders' prioritization of the technical criteria categories. In general, the graph illustrates that a dominant priority for specific criteria was not identified by stakeholders as a group.

**SCORING OF TECHNICAL CRITERIA FOR TOLEDO HARBOR  
 SEDIMENT MANAGEMENT AND USE OPTIONS EVALUATION**

**FIGURE 1**

**INITIAL PUBLIC FORUM PRIORITIZATION OF TECHNICAL CRITERIA**



Provided in Attachment A is a worksheet that we request each Task Force member complete. Each Task Force member shall assign each of the six categories of criteria a weighting factor ranging from zero to 100. The sum of the weighting factors across all categories should be equal to 100. For each option, the raw scoring factors will be adjusted by multiplying them by the weighting factors assigned by the Task Force and the totaled. The options will be ranked in the order of highest to lowest score, which is the order of most preferred to the least preferred option.

The technical team will compile the weighting factors provided by each Task Force member across the six categories of technical criteria and review the data for potential anomalies or outliers. If no anomalies or outliers are identified, the technical team will finalize the weighting factors established by the Task Force as a whole and will present the results to the Task Force at the next Task Force meeting.

If anomalies are identified, the technical team will attempt to determine the cause of the anomalies or outliers by facilitating a discussion with the Task Force members during the next

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Task Force meeting or a special conference call to address or clarify any specific information or perspective that may have been considered to weight the criteria so that they appear as anomalies or outliers. After the discussion, each Task Force member will be asked to repeat the weighting evaluation worksheet again so that a consensus on the weighting factors that should be applied to the technical criteria can be reached by the Task Force as a whole. The technical team will finalize the weighting factors established by the Task Force as a whole, and will present the results to the Task Force at the next Task Force meeting. The technical team will proceed in the evaluation of options using the adjusted technical scoring criteria.

A second public forum will be held in the first quarter of 2012 to present the draft criteria and measurable units for each criterion to the public and solicit input. The proposed objectives of the second forum are:

- solicit comment and stakeholder input on the proposed draft options;
- report on the process to include technical alternatives initially discussed at the Forum #1 and subsequently used to rank technical factors identified during the study; and
- obtain input to modify the methodology as appropriate prior to finalizing the prioritization.

**SCORING OF TECHNICAL CRITERIA FOR  
SEDIMENT MANAGEMENT STRATEGY AND USE EVALUATION**

DRAFT

**ATTACHMENT A**

**TASK FORCE MEMBER WORKSHEET**

Name: Pat Smith Organization: XYZ  
 Address: 123 Main St., Toledo, Ohio 43604  
 Phone: 419-555-1111 E-mail: psmith@xyz.com

Category of Technical Criteria	Examples of Technical Criteria	Assigned Weighting Factor (assign value between zero and 100) (Cumulative = 100% for the category, not individual examples)
<b>Feasibility</b>	Sediment Volume Sediment Placement Volumes Final Capacity Capacity Expansion capability Contaminant reduction/treatment capability Ratio of dredge volume to facility capacity Life of site Ease of implementation Institutional feasibility Regulatory compliance Construction duration Distance from channel Site accessibility Historical/Archeological designations Land use restrictions Other restrictions	<b>2</b>
<b>Ecological Benefits</b>	<u>AQUATIC BIOLOGY</u> Benthic Community Shallow Water Habitat Submerged Aquatic Vegetation Tidal Wetlands Non-tidal Wetlands Spawning Habitat Essential Fish Habitat Recreational Fishery Protected Species (rare, threatened and endangered species) Habitat of Particular Concern <u>WILDLIFE/WATERBIRDS</u> Waterfowl Use Wading and Shorebird Use Wildlife Habitat <u>TERRESTRIAL</u> Forests Streams Lakes & Ponds Prime or Unique Agricultural Land Floodplains	<b>47</b>
<b>Environmental Impacts</b>	<u>PHYSICAL PARAMETERS</u> Substrate/Soil Characteristics Hydro-dynamics effects Toxic Contaminants <u>WATER QUALITY</u> Dissolved Oxygen Nutrient Enrichment Turbidity Groundwater	<b>10</b>
<b>Human Benefits</b>	Recreation Opportunity Flood Protection Aesthetics Complete human health exposure pathways Magnitude of maximum cancer risk Navigational Safety	<b>5</b>
<b>Economic Benefits</b>	Revenue Generation - Final Use Revenue Generation - Construction Public Need Job Creation Tourism Agricultural Improvements Commercially Harvested Species or Habitat	<b>22</b>
<b>Implementation Costs</b>	Dredging Costs Transportation Costs Maintenance Costs Monitoring Costs Construction Cost (\$/CY)	<b>14</b>
<b>TOTAL:</b>		<b>100</b>

Note: Total Sum of Weighting Factors Must Equal 100.

**SCORING OF TECHNICAL CRITERIA FOR  
SEDIMENT MANAGEMENT STRATEGY AND USE EVALUATION**

**ATTACHMENT A**

**TASK FORCE MEMBER WORKSHEET**

Name: \_\_\_\_\_ Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Category of Technical Criteria	Examples of Technical Criteria	Assigned Weighting Factor (assign value between zero and 100) (Cumulative = 100% for the category, not individual examples)
<b>Feasibility</b>	Sediment Volume Sediment Placement Volumes Final Capacity Capacity Expansion capability Contaminant reduction/treatment capability Ratio of dredge volume to facility capacity Life of site Ease of implementation Institutional feasibility Regulatory compliance Construction duration Distance from channel Site accessibility Historical/Archeological designations Land use restrictions Other restrictions	
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<b>Implementation Costs</b>	Dredging Costs Transportation Costs Maintenance Costs Monitoring Costs Construction Cost (\$/CY)	
<b>TOTAL:</b>		<b>100</b>

Note: Total Sum of Weighting Factors Must Equal 100.

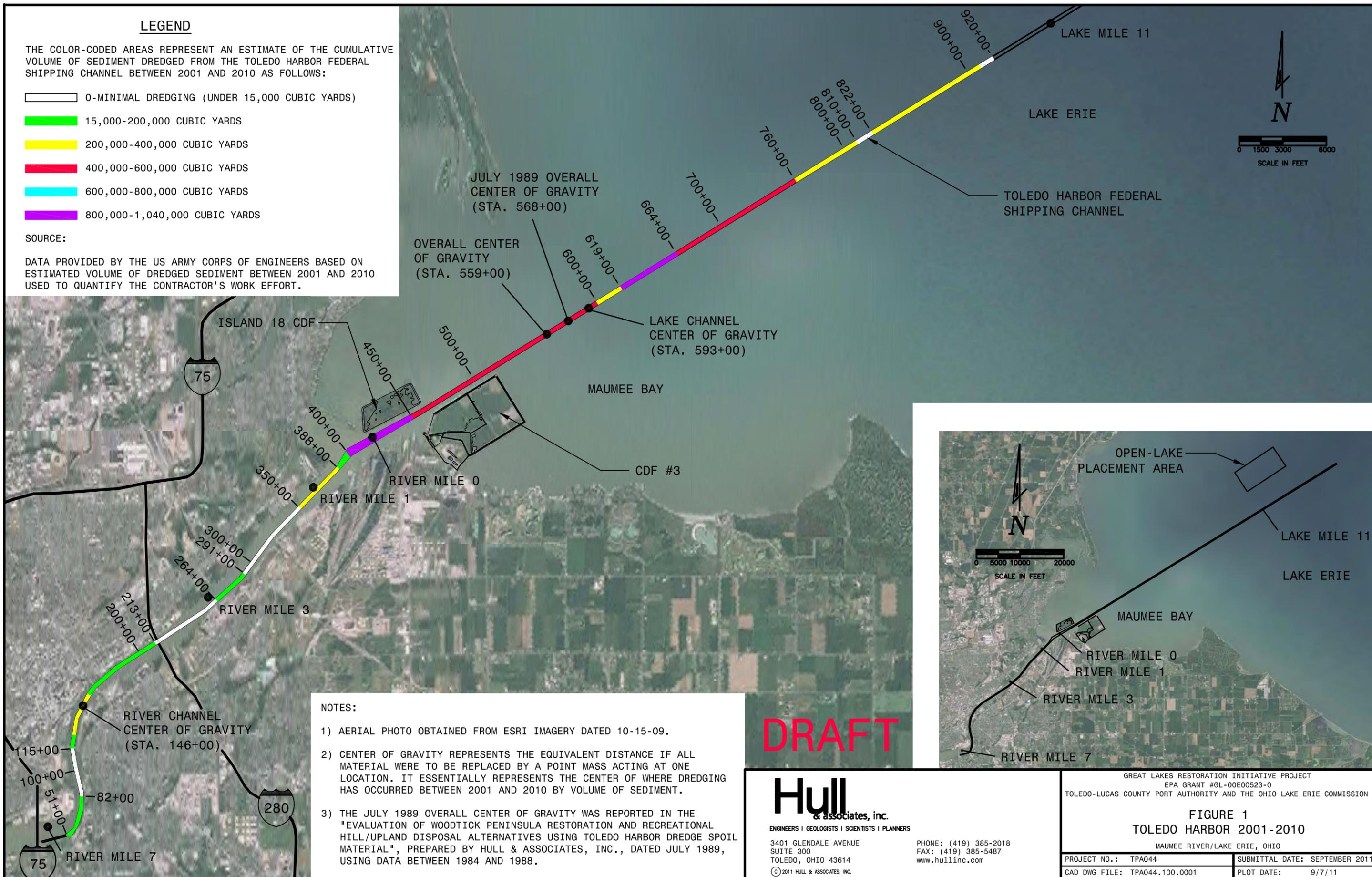
**LEGEND**

THE COLOR-CODED AREAS REPRESENT AN ESTIMATE OF THE CUMULATIVE VOLUME OF SEDIMENT DREDGED FROM THE TOLEDO HARBOR FEDERAL SHIPPING CHANNEL BETWEEN 2001 AND 2010 AS FOLLOWS:

- 0-MINIMAL DREDGING (UNDER 15,000 CUBIC YARDS)
- 15,000-200,000 CUBIC YARDS
- 200,000-400,000 CUBIC YARDS
- 400,000-600,000 CUBIC YARDS
- 600,000-800,000 CUBIC YARDS
- 800,000-1,040,000 CUBIC YARDS

**SOURCE:**

DATA PROVIDED BY THE US ARMY CORPS OF ENGINEERS BASED ON ESTIMATED VOLUME OF DREDGED SEDIMENT BETWEEN 2001 AND 2010 USED TO QUANTIFY THE CONTRACTOR'S WORK EFFORT.



- NOTES:**
- 1) AERIAL PHOTO OBTAINED FROM ESRI IMAGERY DATED 10-15-09.
  - 2) CENTER OF GRAVITY REPRESENTS THE EQUIVALENT DISTANCE IF ALL MATERIAL WERE TO BE REPLACED BY A POINT MASS ACTING AT ONE LOCATION. IT ESSENTIALLY REPRESENTS THE CENTER OF WHERE DREDGING HAS OCCURRED BETWEEN 2001 AND 2010 BY VOLUME OF SEDIMENT.
  - 3) THE JULY 1989 OVERALL CENTER OF GRAVITY WAS REPORTED IN THE "EVALUATION OF WOODTICK PENINSULA RESTORATION AND RECREATIONAL HILL/UPLAND DISPOSAL ALTERNATIVES USING TOLEDO HARBOR DREDGE SPOIL MATERIAL", PREPARED BY HULL & ASSOCIATES, INC., DATED JULY 1989, USING DATA BETWEEN 1984 AND 1988.

**DRAFT**

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GREAT LAKES RESTORATION INITIATIVE PROJECT EPA GRANT #GL-00E00523-0 TOLEDO-LUCAS COUNTY PORT AUTHORITY AND THE OHIO LAKE ERIE COMMISSION	
<b>FIGURE 1</b> <b>TOLEDO HARBOR 2001-2010</b> MAUMEE RIVER/LAKE ERIE, OHIO	
PROJECT NO.: TPA044	SUBMITTAL DATE: SEPTEMBER 2011
CAD DWG FILE: TPA044.100.0001	PLOT DATE: 9/7/11

Figure 2

Toledo Harbor Federal Shipping Channel - 2001-2010  
Lake Channel

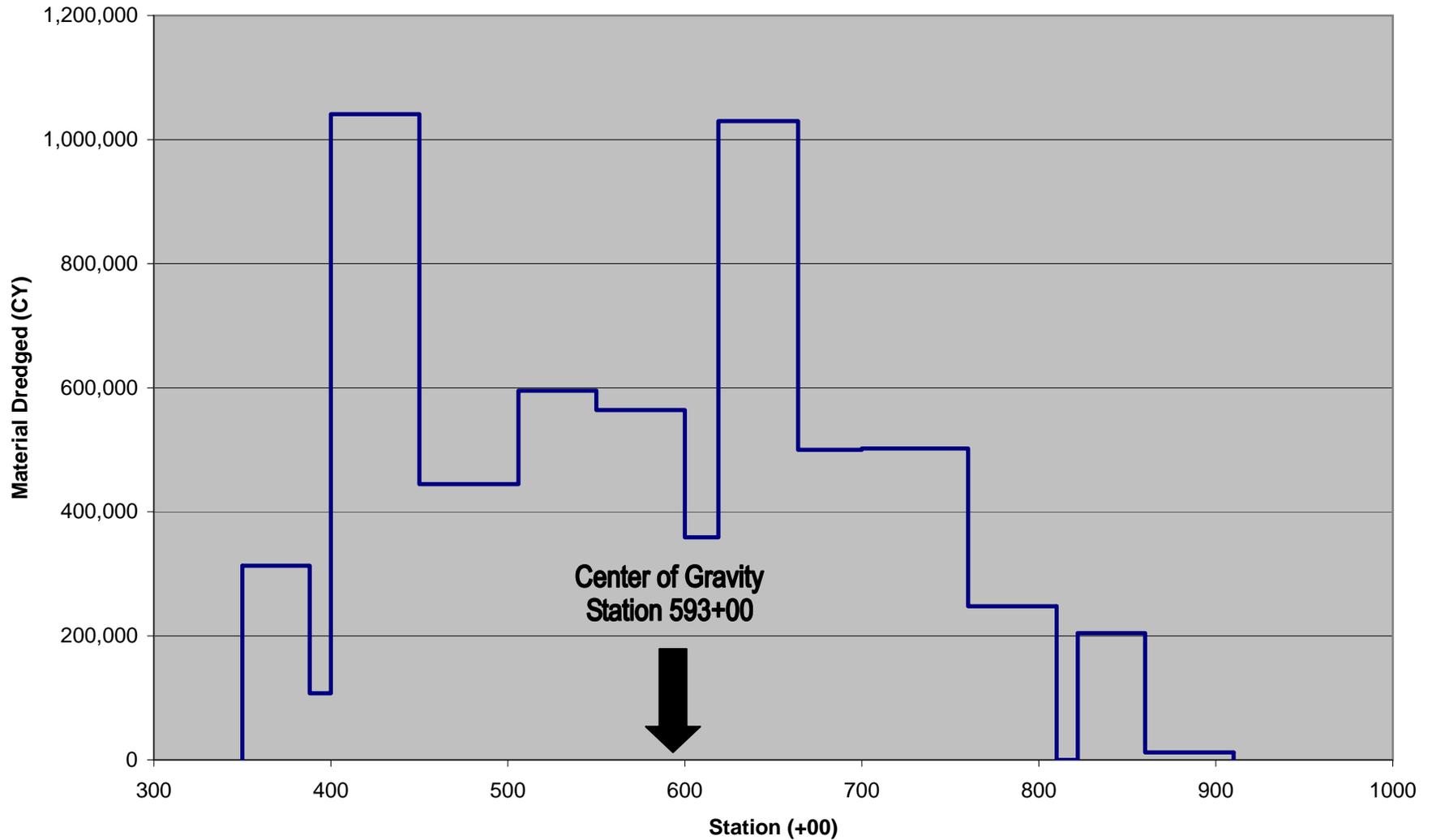


Figure 3

Toledo Harbor Federal Shipping Channel - 2001-2010  
River Channel

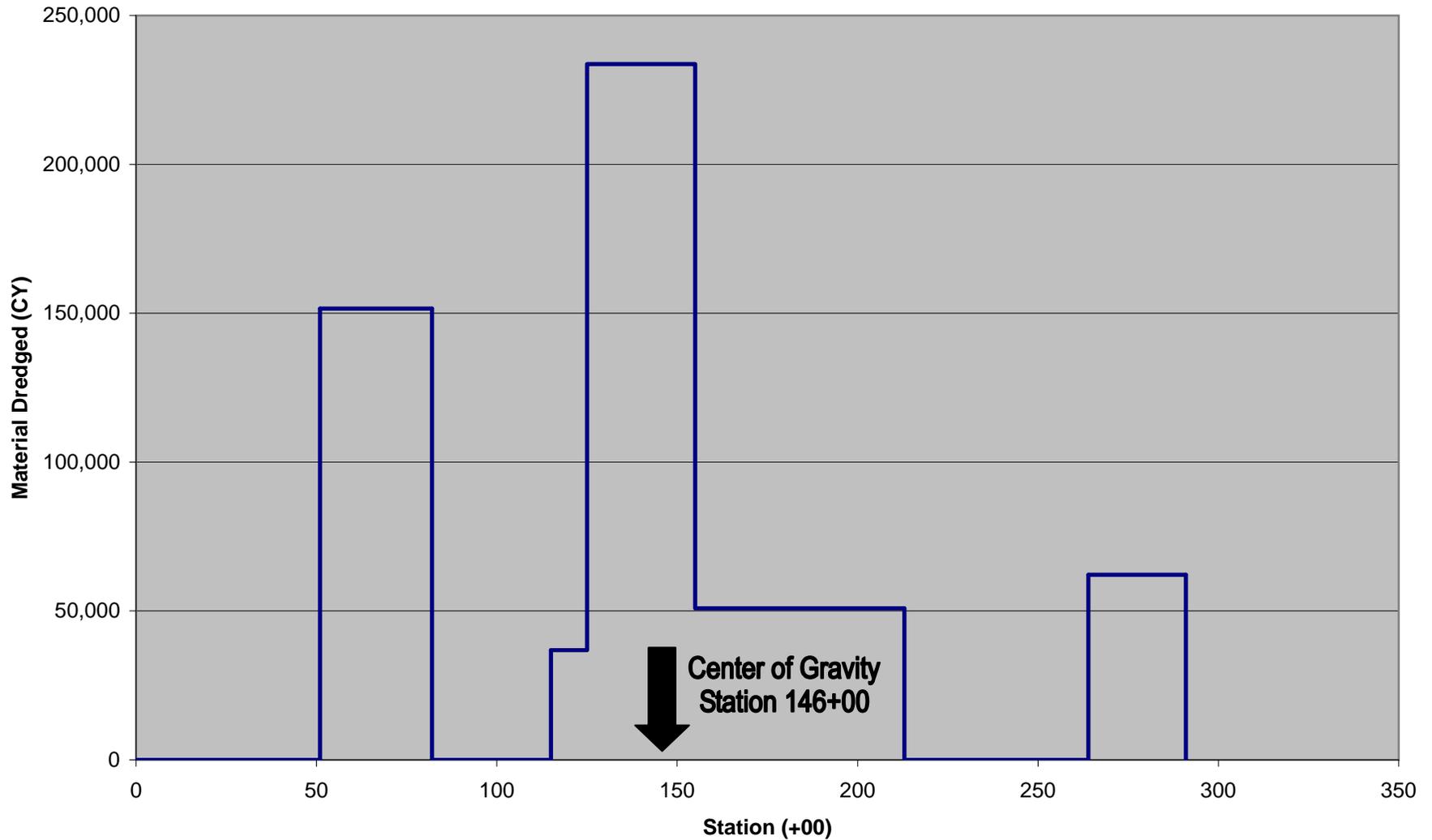


Figure 4

Toledo Harbor Federal Shipping Channel - 2001-2010  
Overall

