

EXECUTIVE SUMMARY

Recommendation to approve Peer Review for Wiggins Pass Channel Improvements by Olsen Associates, Inc. in the amount of \$34,900.

OBJECTIVE: To move forward with the Peer Review for Wiggins Pass Channel Improvements.

CONSIDERATIONS: This is a peer review for Wiggins Pass Channel Improvements to be performed by Olsen Associates, Inc.

This review would be summarized in a brief written report that outlines the professional opinion regarding the adequacy and completeness of the modeling, the conclusion drawn from the modeling, uncertainties in the predicted or probable performance of project alternatives and related recommendations and observations regarding approaches to meet the project's objectives.

Toward completion of this review, this proposal makes allowance for the following:

- (1) A one-day initial site visit by the Principal Investigator to become directly familiar with the area,
- (2) Informal discussions with the County and CP&E and H&M for briefings,
- (3) Desk-top study of the relevant documents,
- (4) Preparation and transmittal of the report,
- (5) Discussion of the project and our findings/report with FDEP/BBCS staff, including Bob Brantly, and
- (6) Follow-up discussion and/or presentations, including allowance for a one-day meeting in Collier County if requested.

The final report would include a summary of discussions with Mr. Brantly and/or other FDEP/BBCS staff, including our understanding of their current concerns, predictions, or thoughts about the Wiggins Pass project

FISCAL IMPACT: Funding is available in fund 195.

GROWTH MANAGEMENT IMPACT: There is no impact to the Growth Management Plan related to this action.

ADVISORY COMMITTEE RECOMMENDATIONS: At the CAC September 13, 2012 meeting this item was approved by an 8 to 1 vote.

LEGAL CONSIDERATIONS: This item has been reviewed by the County Attorney's Office, requires majority vote, and is legally sufficient for Board action. –

RECOMMENDATION: To approve Peer Review for Wiggins Pass Channel Improvements by Olsen Associates, Inc. in the amount of \$34,900.

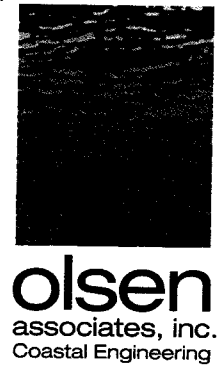
PREPARED BY: J. Gary McAlpin, P.E., Coastal Zone Management, Natural Resources Department

Attachments: Proposal

1 October 2012

J. Gary McAlpin
Director, Coastal Zone Management
3299 Tamiami Trail East, Suite 103
Naples, FL 34112

Re: Peer Review for Wiggins Pass Channel Improvements
Collier County



Dear Jeff:

The following presents our firm's proposal to prepare a coastal engineering peer review of proposed alternatives to improve the navigation channel at Wiggins Pass, with specific reference to the plan proposed by CP&E in the current permit and supporting application. That plan, as described in a February 2010 submittal, principally involves straightening the flood shoal channel by dredging and disposal of sediment as a 'sand dike' along the north bank, along with adaptive management for dredging and beach disposal of the outer, ebb shoal channel. Our understanding is that the primary project objectives are to decrease the magnitude and frequency of dredging requirements, maintain more reliable navigation, mitigate beach erosion along the adjacent north beach, and protect the estuarine resources.

After briefly reviewing several of the documents initially provided to our firm, it would appear that there are two principal -- somewhat divergent -- approaches proposed to improve the Pass. One involves *hydraulic*, non-structural control (dredging and sand dikes, as proposed), and the other involves *littoral*, structural control (with breakwaters, groins or jetties, etc.). There are, of course, also hybrid alternatives that might combine these approaches. Numerical models and engineering reports have been prepared by CP&E and Humiston & Moore (H&M) that describe the inlet and several non-structural alternatives.

As requested, our firm's peer review would not replicate these models or analysis, nor otherwise conduct modeling or new data collection. Instead, our analysis would review the models' assumptions and calibration, sufficiency and thoroughness of the model runs, and the engineering conclusions from the model analysis. Our analysis and review would likewise include additional recommendations and observations regarding the risks and probable success of various project alternatives, based upon the existing model analysis and our firm's prior experience and knowledge of inlet hydraulics.

In this regard, our approach would primarily consist of reviewing in detail the recent reports by CP&E and secondarily those formulated by H&M for the County, along with the permit application and subsequent RAI responses. We would also need to obtain and review the existing Inlet Management Plan (and any draft or pending revisions thereto), the current and/or prior maintenance dredging permit for the Pass, prior surveys and/or maintenance-dredge construction plans, and the Corps' 1980 Project Report, each assumed to be provided by the County. To review the model(s) and efficacy of the proposed solution(s), our review would seek

to develop a working understanding of the occurrence and nature of historical and existing shoaling problems in the Pass, historical changes in the shorelines and channel change (described in the existing reports and FDEP database), the inlet sediment budget, and the principal environmental and/or regulatory constraints.

Our review would be summarized in a brief written report that outlines our professional opinion regarding the adequacy and completeness of the modeling, the conclusions drawn from the modeling, uncertainties in the predicted or probable performance of project alternatives, and related recommendations and observations regarding approaches to meet the project's objectives. The latter would likely include our opinion as to the potential adequacy, deficiencies, and/or advantages of a structural (littoral control) versus a non-structural (hydraulic) approach to the problem; or, at least, our opinion regarding potential deficiencies or advantages in each approach, and the probability of success (or uncertainty) in each approach.

Toward completion of this review, this proposal makes allowance for (1) a one-day initial site visit by the Principal Investigator to become directly familiar with the area, (2) informal discussions with the County and CP&E and H&M for briefings, (3) desk-top study of the relevant documents, (4) preparation and transmittal of the report, (5) discussion of the project and our findings/report with FDEP/BBCS staff, including Bob Brantly, and (6) follow-up discussion and/or presentation, including allowance for a one-day meeting in Collier County if requested. Our final report would include a summary of our discussions with Mr. Brantly and/or other FDEP/BBCS staff, including our understanding of their current concerns, predictions, or thoughts about the Wiggins Pass project.

The proposed fee for this effort would be \$34,900 l.s.

The Principal Investigator and Project Manager would be Dr. Kevin Bodge, P.E., in collaboration with myself and the firm's staff. We anticipate that this effort would require 60 days after your authorization to proceed, to develop the peer review report. We would strive to have preliminary results at the 45 day mark, mol.

Please do not hesitate to contact me or Dr. Bodge if you have any questions regarding this submittal. Thank you for the opportunity to offer our firm's professional coastal engineering services.

Sincerely,



Erik J. Olsen, P.E.
Principal Engineer

ATKINS

October 22, 2012
New Business 7-b
5 of 7

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4030 West Boy Scout Boulevard, Suite 700
Tampa, Florida 33607

Telephone: +1.813.282.7275

www.atkinsglobal.com/northamerica

Gary McAlpin, Director
Coastal Zone Management
Collier County Government
3299 Tamiami Trail East, Suite 103
Naples, FL 34112
Phone Number: (239) 252-5342
Fax Number: (239) 252-2950
Email: GaryMcAlpin@colliergov.net

REFERENCE: Decline - Wiggins Pass Peer Review Services

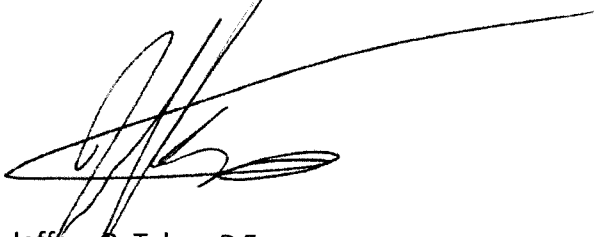
Dear Mr. McAlpin,

This letter is to respectfully decline submitting a fee proposal for the above referenced work assignment. Largely based on our existing workload, we would not be able to provide the requested review in a timely manner. We look forward to upcoming opportunities with the County in the near future.

Please contact me at (727) 510-7619 if I can assist you with any additional information.

Sincerely,

Atkins North America, Inc.

A handwritten signature in black ink, appearing to read 'J. Tabar', with a long horizontal line extending to the right.

Jeffrey R. Tabar, P.E.
Project Director



A CECI GROUP COMPANY

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Civil Engineering
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Environmental Services

Website: www.coastalengineering.com

September 25, 2012

Gary McAlpin, P.E.
Director
Collier County Coastal Zone Management Department
2800 North Horseshoe Drive
Naples, FL 34104

Dear Mr. McAlpin:

Pursuant to our phone conversation of September 24, 2012, we understand that the Coastal Zone Management Department is seeking a proposal in accordance with our annual contract, No. 09-5262-CZ including a detailed scope, fee and schedule for completing a peer review of the Wiggins Pass Inlet Management Plan developed by Collier County and Coastal Planning and Engineering. We further understand that time is of the essence in completing the peer review for this critical project.

At this time, Coastal Engineering Consultants respectfully declines the offer to provide the proposal for the peer review. Due to our current contractual commitments, we are unable to complete the peer review in accordance with the County's time frame.

We thank you for this opportunity and look forward to continuing to provide you high-quality professional services on our current contracts as well as on future projects.

Respectfully,
COASTAL ENGINEERING CONSULTANTS, INC.

A handwritten signature in black ink that reads "Michael T. Poff". The signature is written in a cursive style with a long horizontal stroke extending to the right.

Michael T. Poff, P.E.

McAlpinGary

From: Brett Moore [bdm@humistonandmoore.com]
Sent: Tuesday, October 02, 2012 9:37 AM
To: McAlpinGary; 'WilliamLorenz@colliergov.net'
Subject: Wiggins Pass Peer Review

Gary and Bill,

This is a follow up to my earlier discussion with Bill and follow up meeting with Gary last week regarding the county's intent to hire a firm to conduct a peer review of the analysis and approach being recommended for Wiggins Pass. I was asked if we would consider doing the peer review. I indicated that we are certainly capable of reviewing the modeling and analysis completed for Wiggins Pass. However, our firm was previously involved in this project for the county. We completed two reports, one evaluating structural and non-structural alternatives which concluded that the non-structural approach was inadequate to achieve the county's goal of saving money and reducing impacts.

Based on this, I would be concerned that whatever we would do at this point relative to a peer review could be *perceived as a conflict of interest*. That being the case, you indicated that the county was considering Olsen and Associates, inc. which we believe is a good choice to do the review.

Please let me know if you have any questions regarding this.

Brett

Brett D. Moore, P.E., President
Humiston & Moore Engineers
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