



REQUEST FOR PROPOSALS

Title	<i>Secondary Containment Liner Integrity</i>
LRFP Number	<i>5052.18.01</i>
Project Manager	Austin Love
Submittal Deadline	Thursday, November 30, 2017
Award Announcement	Friday, December 15, 2017

Submit Proposals to:

Austin Love PWSRCAC Project Manager
via email at the following address:
austin.love@pwsrcac.org

or

Prince William Sound Regional Citizens' Advisory Council
P.O. Box 3089
Valdez, AK 99686

To verify receipt of proposal, proposer must contact **Austin Love** before the submittal deadline.

Proposal submission requirements:

- a. Proposals shall be submitted in electronic form in Adobe Portable Document form (PDF) (Acrobat 7.0 or later). The PDF file for the proposal itself shall be created directly from the authoring application. It is permissible but not preferred for appendices and other attachments to the proposal to be submitted in scanned PDF format.
- b. To assure consideration, proposals must be received by Prince William Sound Regional Citizens' Advisory Council (PWSRCAC) by the deadline. Proposals received after the deadline may be considered but only if they can be accommodated by PWSRCAC's review process. Additional information provided after the deadline may also be considered but only if such information can be accommodated by the review process.

Inquiries regarding this request for proposals shall be directed to the project manager named above via email.

REQUEST FOR PROPOSALS

The Prince William Sound Regional Citizens' Advisory Council (PWSRCAC) is inviting proposals for a project to identify non-destructive testing methods that could be used by Alyeska Pipeline Service Company to accurately evaluate the integrity of buried secondary containment liners at the Valdez Marine Terminal (VMT), in Valdez, Alaska. Testing methods identified by this project should be commercially available and implementable given the specific liner types and environmental conditions at the VMT. The final work product of this effort is a report and presentation to the PWSRCAC Board of Directors detailing non-destructive testing methods that could be used to evaluate the integrity of secondary containment liners at the Valdez Marine Terminal.

ABOUT PWSRCAC

MISSION STATEMENT: Citizens promoting environmentally safe operation of the Alyeska terminal and associated tankers.

PWSRCAC was formed following the Exxon Valdez oil spill to advise Alyeska Pipeline Service Company and the public on issues related to oil spill prevention and response and mitigating the environmental impacts of terminal and tanker operations. PWSRCAC also advises oil shippers, regulatory agencies and elected officials on these issues.

PWSRCAC's membership comprises communities affected by the Exxon Valdez oil spill and interest groups with a stake in safe oil transportation in the region. PWSRCAC's 19 member organizations are communities and boroughs impacted by the 1989 Exxon Valdez Oil Spill, as well as Native, commercial fishing, aquaculture, recreation, tourism and environmental representatives.

PWSRCAC was chartered as a non-profit corporation by the State of Alaska on December 26, 1989. PWSRCAC is funded under a contract with Alyeska, and is certified as the alternative voluntary advisory group for Prince William Sound under the Oil Pollution Act of 1990 (OPA90).

Please note: All of PWSRCAC's products and the products resulting from contracts are considered public information. Proposals and work plans may be distributed throughout the organization for review and comment. Proprietary information should not be submitted in any proposal. PWSRCAC will not knowingly reveal the contents of a proposal that is not subsequently accepted for contract; however, PWSRCAC accepts no liability should such contents inadvertently be revealed to third parties.

1. PROJECT

INTRODUCTION

Alyeska Pipeline Service Company (APSC) is required by state regulation to locate the crude oil storage tanks at the Valdez Marine Terminal within a secondary containment area designed to prevent spilled crude oil from reaching nearby waterbodies, land, or underlying groundwater. The secondary containment area must have “the capacity to hold the volume of the largest tank within the containment area plus enough additional capacity to allow for local precipitation” and be lined with materials that are “sufficiently impermeable” to crude oil (18 AAC 75.075). There are currently fourteen in-service crude oil storage tanks placed within seven secondary containment areas at the terminal (two tanks per area). The largest secondary containment area covers approximately 341,000 ft², the smallest 283,000 ft², and the average size is about 307,000 ft².¹ Each of the secondary containment areas is lined with a combination of two types of liner, XR-5 geomembrane and Catalytically Blown Asphalt (CBA). Most of each secondary containment area is lined with CBA liner compared to XR-5. The CBA liner “consists of liquid asphalt that was catalytically blown/sprayed onto a prepared base of crushed rock gravel.”² All of the CBA liner is buried beneath approximately 4-5 feet of earthen fill.

Damage to the buried CBA liner has been discovered visually when APSC has had to excavate the earthen fill for a variety of Valdez Marine Terminal projects. That damage has been qualified by APSC as “existing” damage, meaning it was present before the excavation work uncovered it. The CBA liner damage includes cracking (partially and completely through), tears, and holes of varying sizes. Compared to the overall footprint of each secondary containment area, the area of uncovered and visually inspected CBA liner has been relatively small. For example in 2015, the total approximate area of CBA liner unearthed, and visually inspected, in two secondary containment areas was about 1,750 ft², compared to the total combined area of about 625,000

¹ Alyeska Pipeline Service Company. March 27, 2017. *Contingency Plan Waiver Request Associated with Project Z744 VMT Industrial Wastewater System Lifecycle Repairs*. Government Letter 37047

² Golder Associates Inc. April 1, 2015. *Field Inspection and Liner Evaluation for Catalytically Blown Asphalt (CBA) Liner at the Valdez Marine Terminal*.

ft².³ The information available to date indicates that more damage likely exists in the relatively large regions of the CBA liner that have not been unearthed or uncovered and visually inspected.

GOALS and DELIVERABLES

The goal of this project is to identify other testing methods, besides visual examination, that could be used to non-destructively and more comprehensively assess the buried CBA liner in the secondary containment areas for damage such as cracks, tears, and holes. Such methods should minimize the need for excavating the earthen fill above the liner. The test methods must be currently commercially available. It would be advantageous if the methods were also applicable to the other liner types used at the Valdez Marine Terminal such as XR-5.

Three deliverables are desired from this project, a draft and final technical report as well as a presentation summarizing the key findings of the final report. The purpose of the technical report is to explain how the contractor's selected liner testing method(s) could successfully be used at the Valdez Marine Terminal, given the local environmental conditions and structure of the secondary containment areas. The intended audience of the report is PWSRCAC, APSC, and the Alaska Department of Environmental Conservation (ADEC). The purpose of the presentation is to educate and provide an opportunity to ask technical questions about the testing methods suggested by the contractor. The contractor would be expected to give the presentation in-person at one of the PWSRCAC's Board of Director's meetings in Alaska. The intended audience of the presentation is PWSRCAC, APSC, and ADEC.

DESCRIPTION of REQUESTED WORK

Scope of Work. The scope of work shall include, but is not limited to the following:

1. Information Gathering and Site Visit

³ Golder Associates Inc. June 27, 2016. *Additional Liner Testing and Evaluation for Catalytically Blown Asphalt (CBA) Liner at the Valdez Marine Terminal.*

Citizens promoting environmentally safe operation of the Alyeska terminal and associated tankers

- a. **Obtain and review secondary containment area information in the possession of PWSRCAC.**
- b. **Visit the Valdez Marine Terminal in Valdez, Alaska to observe secondary containment areas in the East Tank Farm (May or June 2018, dependent on snow cover).**
- c. **Meet with APSC staff to discuss questions pertaining to the secondary containment areas (concurrent with May/June site visit).**
- d. **Obtain and review secondary containment area information from APSC as needed.**

2. Draft Report

- a. **Write a draft report detailing how the testing method(s) identified by the contractor could work at the Valdez Marine Terminal. The report context should minimally include:**
 - i. **General description of the test method(s): e.g. general principles, testing accuracy, time requirements, testing limitations, detection distance, survey procedures, explanation of important terminology.**
 - ii. **Brief case study example of the method(s) successful use – should provide an example that is somewhat relatable to conditions of the Valdez Marine Terminal.**
 - iii. **Description of how it could be applied at the Valdez Marine Terminal – include any key challenges posed by the location.**
 - iv. **Costs for implementation at the Valdez Marine Terminal – should allow for estimation of costs for surveying the seven secondary containment areas in the East Tank Farm.**
- b. **Work with the Project Manager on the draft report**

- i. **Contractor will submit draft report to project manager for initial review and feedback.**
 - ii. **After project manager revision and feedback is incorporated, contractor will submit revised copy to project manager. Project manager will then submit draft report to the PWSRCAC Terminal Operations and Environmental Monitoring (TOEM) Committee for review.**
- c. Work with the TOEM Committee to revise the draft report.**
- i. **This six person committee will review the draft report provided by the contractor and provide contractor with feedback on how it may need to be revised.**
 - ii. **The contractor will attend meeting(s) with the committee, via teleconference, to obtain their feedback on the draft report.**
 - iii. **Contractor shall update draft report based on TOEM Committee feedback.**

3. Final Report

- a. **Work with the project manager and TOEM Committee to finalize the draft report.**
 - i. **Once they are satisfied with the report, the TOEM Committee will recommend the report be submitted to the PWSRCAC Board of Directors for their acceptance at their January 2019 meeting in Anchorage, Alaska.**

4. In-Person Presentation

- a. **Provide an in-person presentation at the PWSRCAC Board of Directors meeting in Anchorage, Alaska in January 2019 regarding the key findings and conclusions from the final report. The purpose of this presentation is to**

provide an opportunity to ask technical questions about the testing methods suggested by the contractor and to educate the audience about the liner testing method(s). The intended audience of the presentation is PWSRCAC, APSC, and ADEC. That audience includes a broad mix of work backgrounds including: state environmental regulators, pipeline operators, engineers, lawyers, scientists, fisherman, business owners & people, teachers, and boat captains.

- b. During that meeting, the Board of Directors will also decide whether or not to formally accept the final report.**

Fiscal Year 2018 Allocated Funding for this Project - \$32,500

Schedule and Completion Dates

- 1. Contract Award Announcement – Friday, December 15, 2017*
- 2. Information Gathering and Site Visit – May & June 2018*
- 3. Draft Report – July 2018*
- 4. Final Report – August 2018*
- 5. In-Person Presentation – January 2019*

2. GENERAL REQUIREMENTS

PWSRCAC Costs. PWSRCAC is not liable for any costs incurred by the proposer during the proposal preparation.

Single Point of Contact. The contractor will designate one person as the project manager and point of contact with PWSRCAC. In the case of multiple investigators, one shall be designated as the lead to serve as the project manager and point of contact.

Subcontracts. Proposers may subcontract minor portions of the contract. However, the proposer must have the major elements of expertise in house and demonstrate the ability to manage the subcontractor.

Schedule. Progress reports shall be submitted to the contract manager upon completion of each phase described in the scope of work. At a minimum, progress reports shall include:

- a. An introduction;
- b. An overview of progress to date;
- c. Identification of any difficulties encountered in accomplishing the work;
- d. A schedule for completion of the remaining tasks; and
- e. Specific recommendations concerning the matters addressed.

Final Report. The contractor shall submit a written final report. The final written report shall include an executive summary and be of a professional quality suitable for release.

The Final report must be submitted as an electronic file in PC format in MSWord, and data in Excel or Access. In addition, the final report shall be submitted in a portable document format (pdf) version optimized for web viewing and created directly from the authoring application using Adobe Acrobat 7.0 or later. Project maps, photos or other graphics shall be included as part of the digital submittal in a common graphic format. Any data or collection of information resulting from work done under the contract is the property of PWSRCAC and shall be submitted electronically in Microsoft Access or Excel format to PWSRCAC.

Oral Report. The contractor may be asked to deliver an oral presentation at a council meeting upon completion of the work.

Final Payment. A portion of the total payment to the contractor will be withheld until all requirements are met. No interest will be paid on any withheld payments.

3. REQUIRED PROPOSAL CONTENTS

Any submitted proposal shall include the following as appropriate to the requirements of the scope of work:

Cover Sheet

- Name, address, telephone number and facsimile number of proposer.
- RFP Title and Number
- Name of Principal Consultant(s)
- Cost of Proposal

Table of Contents. May include a list of Tables and Figures if appropriate.

Introduction. This section shall include the RFP title and number, brief general discussion of the problem and the proposed project. Scientific and technical terms shall be clearly defined and a list of pertinent enclosures included.

Goals and Deliverables. Describe how the proposer intends to address the specific goals and provide the deliverables of the work requested, as listed above.

Materials and Methods. Describe in detail the methods to be used and how they will produce the deliverables. Cite references and provide background information where applicable and as needed.

Project Duration and Work Schedule. Describe the schedule in which the proposed work will be completed. Include specific milestones, work phase completion dates and the timing of progress reports. Indicate what will be achieved by the completion of each milestone or phase of work.

Management Scheme. Clearly describe how the work will be managed including the role of each key individual expected to be involved in the work. Provide names and resumes of each. This section should also include information on how the scope, time and costs of the project will be controlled.

Budget. Include information about the total costs (cited in U.S. Dollars), professional fees, expenses and contingencies. In case of overhead rates or administrative fees, give percent of direct personnel cost. Provide a breakdown of hours per individual and rates per individual. If subcontractors are used, indicate the percentage of work to be performed by each subcontractor with respect to the entire proposed scope of work.

Consultant/Contractual Services. Indicate if, how, and why a subcontractor will be used for any portion of the work.

Logistics and On-Site Visits. Describe logistics and schedules for all travel in conjunction with the proposed work.

Statement of Qualifications. Describe, relevant to the proposed work, previous work experience, related technical accomplishments and educational background of each of the principal investigators and subcontractors if used. If multiple investigators are involved, describe the role of each individual.

References. The names, contact persons, and telephone numbers of firms for which the respondent recently performed services shall be included. A minimum of three such references is suggested.

Conflict of Interest. Describe all financial, business or personal ties contractor has to Alyeska Pipeline Service Company or members of the Alyeska consortium, excluding normal commercial purchases of petroleum products.

4. SUBMITTAL AND EVALUATION PROCESS

A. Evaluation Criteria. Proposals will be evaluated based on, but not limited to, the following:

- 1) **Proposal Format.** Does the proposal follow the requested format?
- 2) **Proposed Scope of Work.** Does the proposal clearly address the requested scope of work?
- 3) **Technical Approach.** Is the proposed approach to the scope of work technically feasible?
- 4) **Qualifications.** Does the principal investigator possess expertise and experience to assure successful completion of the scope of work?
- 5) **Management Scheme.** Will the proposed management scheme reasonably lead to successful development of the deliverables?
- 6) **Schedule.** Is the proposed schedule for completion of the scope of work in accordance with the requested project duration and schedule?
- 7) **Deliverables.** Are the proposed deliverables in accordance with the deliverables requested in the scope of work?
- 8) **References and Conflicts of Interest.** Does a reference check indicate proposer has the potential to successfully complete the proposed scope of work? If conflicts of interest are stated, are they sufficiently relevant to preclude an offer to perform the work for PWSRCAC?

9) Budget and Cost Justification. Is the budget reasonable and adequate for the work proposed? Does the budget provide good value for the funds requested?

B. Contract Award. The successful proposal will be the one that, in PWSRCAC sole opinion, best meets the needs as outlined in this RFP. In the event that PWSRCAC determines that no proposal completely meets all of the needs as outlined in the RFP, PWSRCAC shall have the option not to accept any proposal or enter into any contract whatsoever. In the alternative, PWSRCAC may select the proposal or proposals that, in its sole view, most nearly conform to its needs as outlined in this RFP; and then negotiate directly with that contractor to refine the proposal to achieve a contract that fully satisfies PWSRCAC needs.

C. Professional Services Contract. A copy of PWSRCAC's standard professional services contract form can be found at http://www.pwsrcac.org/wp-content/uploads/filebase/newsroom/rfps/professional_services_agreement.pdf or can be made available upon request.

D. PWSRCAC Information. The following information about PWSRCAC is available upon request to the project manager:

PWSRCAC/Alyeska Contract

PWSRCAC Bylaws

PWSRCAC Observer Newsletter

PWSRCAC Brochure

PWSRCAC Annual Report