



**Request For Proposals  
Nome to Homer Express Project  
2024 Marine Route Survey**

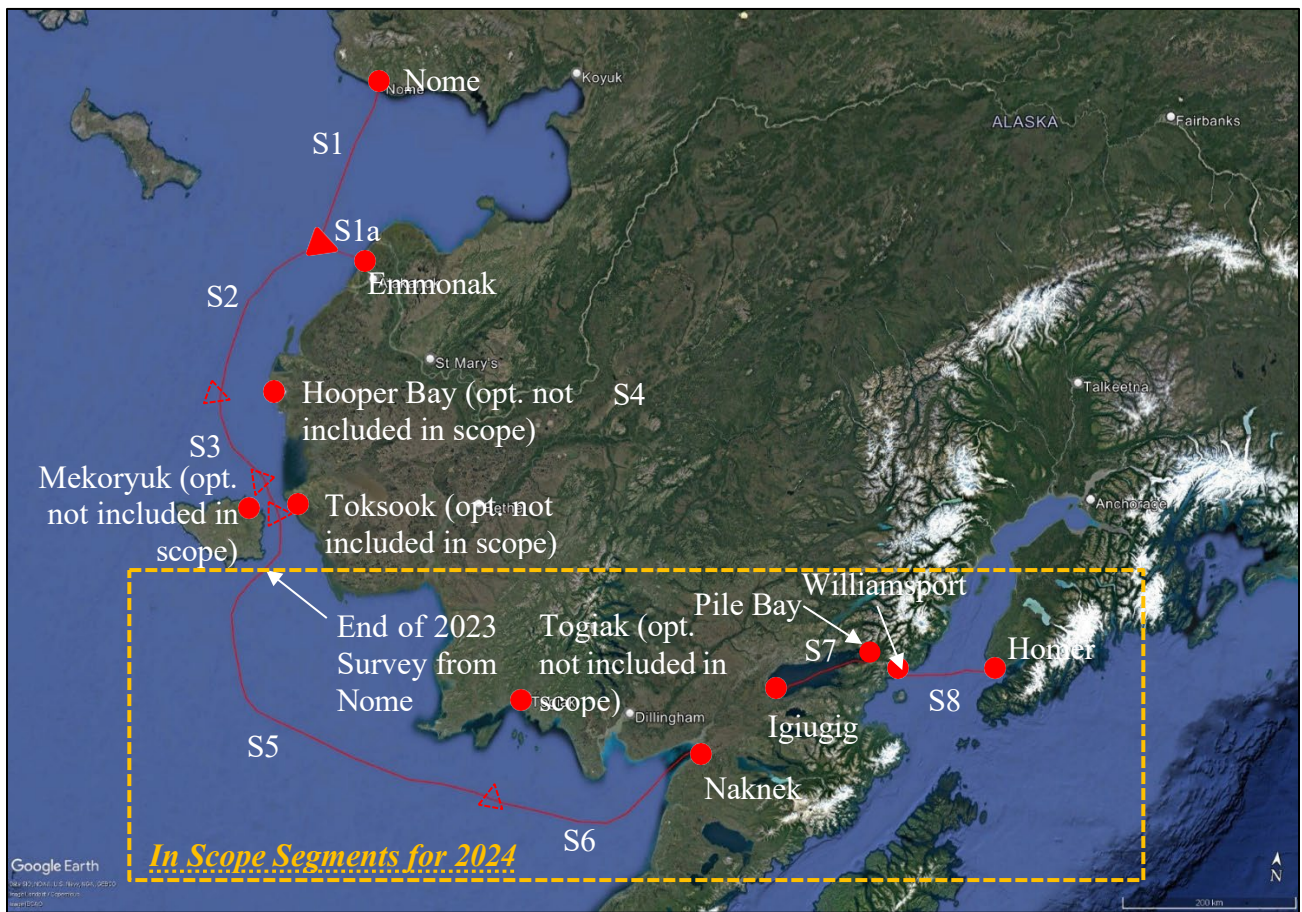
Quintillion  
201 East 56<sup>th</sup> Avenue, Suite 300  
Anchorage, AK 99518

Due Date: Monday, January 5th, 2024

# 1 INTRODUCTION

Quintillion Subsea Operations (Quintillion) is seeking proposals for a marine route survey of the Nome to Homer Express submarine fiber optic cable system (NTHE). A portion of the NTHE system was surveyed in 2023. This document comprises the technical specifications for a marine route survey of the remainder of the NTHE system to be conducted in 2024.

The NTHE system is designed to connect an existing landing in Nome, Alaska to an existing landing at Homer, Alaska. An overview of the system is provided in the figure below.



**Figure 1: NTHE Overview**

The 2023 survey completed geophysical and geotechnical data collection for Segments 1, 1a, 2, 3, 4, and part of 5 (to a point denoted as ‘end of 2023 survey from Nome’ in the figure above). The required 2024 survey will include the remained of Segment 5, and Segments 6, 7, and 8. It is noted that Segment 7 is a planned crossing of Iliamna Lake from Igiugig to Pile Bay.

A summary of the NTHE segments is provided in the table below.

**Table 1.1 NTHE Marine Route Survey Segment Summary**

<b>Segment</b>	<b>From</b>	<b>To</b>	<b>Route Distance (km)</b>	<b>Comment</b>
Segment 1	Nome	BU Emmonak	178.769	Surveyed in 2023 (not in scope)
Segment 1a	BU Emmonak	BMH Emmonak	57.109	Surveyed in 2023 (not in scope)
Segment 2	BU Emmonak	BU Hooper Bay	203.527	Surveyed in 2023 (not in scope)
Segment 3	BU Hooper Bay	BU Mekoryuk	118.561	Surveyed in 2023 (not in scope)
Segment 4	BU Mekoryuk	BU Toksook Bay	15.221	Surveyed in 2023 (not in scope)
Segment 5 (to end of 2023 survey)	BU Toksook Bay	End of 2023 survey	104.362	Surveyed in 2023 (not in scope)
Segment 5	End of 2023 survey	BU Togiak	414.985	In scope for 2024 survey
Segment 6	BU Togiak	BMH Naknek	184.733	In scope for 2024 survey
Segment 7 (Iliamna Lake)	BMH Igiugig	BMH Pile Bay	128.026	In scope for 2024 survey
Segment 8	BMH Williamsport	BMH Homer	125.529	In scope for 2024 survey

For added clarity, the BMH sites to be surveyed include Naknek, Igiugig, Pile Bay, Williamsport and Homer. The landing sites indicated in the figure above as being “opt. not included in scope” including Hooper Bay, Mekoryuk, Toksook Bay, and Togiak are not required under these Technical Specifications. Provided with these Technical Specifications are the segment route files in shapefile, Google Earth, and RPL formats.

A summary of the Scope of Work is provided in the table below and is further detailed in this document.

<b>NTHE Marine Route Survey Scope of Work Summary</b>				
<b>Survey Phase</b>	<b>Depth Range</b>	<b>Survey Corridor</b>	<b>Data Overlap</b>	<b>Equipment</b>
<b>Geophysical Data Collection</b>				
Topographic Site Survey	50m behind Beach Manhole (BMH) to 0m (MLLW)	250m	N/A	Total Station, GPS
Intertidal	0m (MLLW) to 3m	Centerline Only	N/A	Drop video camera – continuous video along route centerline; single pass MBES on higher high tide
Inshore Survey	3m to 15m	250m	100% side scan sonar, 20% bathymetry	Multibeam echo sounder, sub- bottom profiler, side scan sonar, DGPS  MBES backscatter interpreted for sediment types can be used in lieu of SSS.
Shallow Water Survey	15m to full depth	500m	100% side scan sonar, 20% bathymetry	Multibeam echo sounder, sub-bottom profiler, side scan sonar, DGPS, USBL, magnetometer
		250m (Iliamna Lake Only)	20% bathymetry	Multibeam echo sounder, DGPS, magnetometer (no SBP or SSS)
<b>Geotechnical Data Collection</b>				
Grab Sampler	0m to 15m	Centerline Only	N/A	Every 10m or as appropriate for the distance to the 15m contour
	To full depth	Centerline Only	N/A	Taken as needed in areas where gravity core fails

Gravity Core	15m to full depth	Centerline Only	N/A	1 core/5km centered over the proposed engineered route after completion of the geophysical survey.  Option for 1 core/10km
Cone Penetrometer Test (CPT)	15m to full depth	Centerline Only	N/A	1 CPT/5km centered over the proposed engineered route after completion of the geophysical survey.  Option for 1 CPT/10km

**Table 1.2 NTHE Marine Route Survey Scope of Work Summary**

A geotechnical survey is not required for Segment 7 (Iliamna Lake) except for grab samples being collected in 0-15m water depth.

Bidder shall include a route development allowance equivalent to ten percent (10%) of the original route length. Quintillion shall provide direction regarding route deviations to the selected bidder.

## **2 SUBMISSION PROCEDURES**

Proposals must be received by 5:00 pm Alaska Standard Time on Monday February 5<sup>th</sup>, 2024 by email to the below addresses:

Matt Peterson – [mpeterson@quintillionglobal.com](mailto:mpeterson@quintillionglobal.com)

Ryan Wopschall – [wopschallconsulting@gmail.com](mailto:wopschallconsulting@gmail.com)

Cc: Debbie Dean - [ddean@quintillionglobal.com](mailto:ddean@quintillionglobal.com)

Ada Maduakor - [amaduakor@quintillionglobal.com](mailto:amaduakor@quintillionglobal.com)

Subject Line: 2024 NTHE RFP Marine Survey

Proposals must include the name and address of the bidder. All proposals must be signed by an official agent or representative of the company submitting the proposal. All proposals must be complete and irrevocable for 30 days following the submission date. Modifications to the proposals already submitted will be allowed if submitted in writing no later than one week after the proposal deadline.

Proposals are to be prepared in such a way to provide a straightforward, concise delineation of the bidder’s capabilities to satisfy the requirements of this RFP.

The bidder shall be deemed to have notice of and to have fully examined all of the documentation relative to this Request for Proposal and to have fully considered the risks, contingencies and other circumstances which could affect its Proposal. Quintillion will not entertain any claim on the part of the bidder or selected bidder, based on a misunderstanding or misconception on their part of the requirements set forth herein.

While all reasonable endeavors have been made to accurately inform the bidder of the requirements, bidder must form their own conclusions about the methods and resources needed to meet these requirements.

Bidder shall not be reimbursed by Quintillion for any costs, direct or indirect, incurred as a result of the preparation of their Proposal, including but not limited to, any activities required to support the Proposal during the evaluation process or arising from any termination, amendment or variation of the procedure described herein, nor will Quintillion incur any liabilities for bidder's efforts in responding in any way to this Request for Proposal.

Nothing herein contained or in any other communication between Quintillion and bidder shall be deemed to constitute a contract, agreement, or representation that any contract shall be awarded pursuant to this Request for Proposal.

### **3 QUESTIONS**

Any questions from the bidder regarding this RFP and Technical Specifications must be submitted within one week of receipt of this RFP. Questions can be submitted in written form to the following email addresses:

Matt Peterson – [mpeterson@quintillionglobal.com](mailto:mpeterson@quintillionglobal.com)

Ryan Wopschall – [wopschallconsulting@gmail.com](mailto:wopschallconsulting@gmail.com)

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