



May 23, 2025

South Carolina Office of Resilience
632 Rosewood Drive
Columbia, South Carolina 29201

Attention: Ms. Shauna Webb, Infrastructure Project Manager
Shauna.Webb@scor.sc.gov

Reference: **Proposal for Additional Environmental Sampling and Analysis
USS Yorktown**
Mount Pleasant, South Carolina
S&ME Proposal No. 24130479C

Dear Ms. Webb:

S&ME, Inc. (S&ME) appreciates the opportunity to provide this proposal to perform sampling and analysis for per- and polyfluoroalkyl substances (PFAS), metals and asbestos assessments at the referenced ship located at 40 Patriots Point Road in Mount Pleasant, South Carolina. This proposal provides our understanding of the project and outlines our proposed scope of service, schedule, and fee. If authorized, the applicable portion of work will be conducted in accordance with the State of South Carolina STC for Asbestos/Lead Paint/Mold Collection and Testing Contract No. 4400034379 (May 19, 2024 to May 19, 2029) between S&ME and the State of South Carolina. Additional services not applicable to the above-referenced state contract will be conducted in accordance with the terms and conditions of the attached Form AS-071, Agreement for Services, which is incorporated into this proposal by reference.

◆ Project Information

This proposal was requested by you during the weekly progress meeting conducted on April 4, 2025. We understand that additional PFAS and metals samples will be necessary to characterize the liquids that will be pumped and disposed of as part of the ongoing USS Yorktown Environmental Assessment and Remediation project (SCOR Project No. YT-22-1000-01 and State Project No. D30-N021-PG). The USS *Yorktown* Environmental Assessment and Remediation Plan Technical Specifications OSE Project No. D30-N021-PG (Tech Specs) specifies that an independent contractor will be hired by the South Carolina Office of Resilience (SCOR) to conduct any required testing. Based on ongoing discussions we understand the following:

- PFAS samples are requested to be submitted to the laboratory on an expedited (1 to 3 business-day) turnaround schedule, which incurs up to 200% surcharge for analysis.
- Laboratory turnaround times will be based upon the laboratory's ability to analyze the samples upon the first extraction of a sample, and the Client will be invoiced on the turnaround schedule executed by the laboratory.



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- The South Carolina Department of Environmental Services (SCDES) Asbestos Section requested asbestos assessments for each area that will disturb suspect asbestos containing materials (ACMs), prior to destructive activities.
- The SCDES requested an Asbestos Project Design for pumping water contaminated with known ACMs, as well as the solids remaining following pumping activities.

The Environmental Protection Agency (EPA) requires asbestos survey assessments, conducted by EPA accredited individuals, prior to renovation and/or demolition projects, regardless of the age of the materials or date of construction. The applicable EPA regulations, enforced by District IV and the SCDES, include Code 40, part 61, subpart M, Final Rule National Emissions Standards for Hazardous Air Pollutants (NESHAP), and Asbestos in Schools Hazard Abatement Reauthorization Act (ASHARA) which applies to public buildings. The SCDES requires onsite asbestos air monitoring prior to, during and following abatement activities, by a SCDES licensed Air Sampler, when 160 square feet or greater of friable ACM is removed. The SCDES also requires a written project design, prepared by a SCDES licensed Project Designer, when an asbestos project involves 3,000 square feet or 1,500 linear feet of friable ACM.

◆ Scope of Service

S&ME proposes to perform the following Additional Services detailed in this Scope of Service.

Task 1 – PFAS Sampling

Initial PFAS Sampling

With the approval of SCOR, S&ME previously collected ten PFAS water samples analyzed using EPA SW-846 Method 1633 under proposal number 24130479 dated November 7, 2024. SCOR initially requested that the ten samples be analyzed on a standard three-week turnaround sample analysis schedule for up to three mobilizations.

Upon our receipt of the analytical results from the laboratory, S&ME was requested to provide the laboratory results to SCOR and provide recommendations regarding disposal of the tank water based on the results of the analysis. Upon receipt of the initial water sample result, SCOR requested that sample analysis be conducted on an expedited turnaround beyond the scope of the initial proposal.

S&ME collected the remaining nine samples on an expedited 5-day turnaround time based on the laboratory's abilities. Fees associated with the expedited sample analysis include a fifty percent (50%) markup based on the laboratory's standard pricing.

Initial PFAS Effluent Sampling and Metals Sampling

Following the initial 10 PFAS water samples analyzed using EPA SW-846 Method 1633, a water filtration system was installed by HEPACO to remove detected PFAS constituents, generating effluent water. SCOR requested that S&ME coordinate with HEPACO to collect effluent water samples on an expedited basis.



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One PFAS effluent sample was collected and submitted to PACE Analytical Services, LLC (Pace) on April 9, 2025 on a requested 3-day turnaround which includes a (100%) fee markup based on the laboratory's standard pricing. The first extraction was not received until the fifth day, and the final report was not issued until the seventh day of the assessment; therefore, a standard sample fee was requested from Pace, and all PFAS samples going forward were redirected to Katahdin Analytical Services (SGS) based on the recommendation of HEPACO.

Four PFAS effluent samples were collected and submitted to Katahdin Analytical Services (SGS) on April 21, April 23, May 2, and May 9, 2025. SCOR requested that we analyze these samples on an expedited 24-hour turnaround which includes a (200%) markup fee based on the laboratory's standard pricing. Each of these samples included a mobilization, a priority overnight shipping fee, as well as a discussion with SCOR regarding the analysis results.

PFAS Water Sampling

S&ME proposes to conduct up to 25 mobilizations and collect up to 40 representative PFAS samples from tanks designated by the Client. Tank water will be sampled in-situ from ship, from holding tanks after being pumped from the ship, or from effluent in holding tanks following onsite filtration.

Sampling and analytical tasks will be performed in general accordance with the current LSASD Field Branches Quality System and Technical Procedures. Disposable sampling equipment will be used when available. When necessary (between sampling locations), reusable sampling equipment will be properly decontaminated and subsequently rinsed using PFAS-free water in the field before being re-used to collect additional samples. S&ME will coordinate with an analytical laboratory who will provide us with the appropriate sample containers for analysis of water samples for PFAS by EPA SW-846 Method 1633. Sample containers will be placed into an iced cooler and shipped or transported to a laboratory under chain-of-custody.

PFAS samples will be analyzed using EPA SW-846 Method 1633. S&ME will use a laboratory certified by SCDES to perform the analyses. Samples will be analyzed on an expedited 24-hour to 3-day turnaround schedule depending on the laboratory's capabilities, which incurs up to 200% surcharge. Turnaround pricing will be based on results of the first extraction of the sample which does not include weekends, holidays, the date of sample collection, or the date with which the sample is initially received at the lab.

Upon our receipt of the analytical results from the laboratory, S&ME will provide the laboratory results to SCOR and provide verbal recommendations regarding disposal of the tank water based on the results of the analysis. One written letter report will be provided, and include a description of field activities, procedures used, sample results, and comparisons of sample results to various USEPA screening levels at the completion of the project.

Task 2 – Metals Sampling

S&ME proposes to conduct up to five mobilizations and collect up to five representative RCRA metals and mercury samples from tanks designated by the Client. Tank water will be sampled in-situ from ship, from holding tanks after being pumped from the ship, or from effluent in holding tanks following onsite filtration.

S&ME will coordinate with an analytical laboratory who will provide us with the appropriate sample containers for analysis of water samples for RCRA metals and mercury analysis. Sample containers will be placed into an iced cooler and shipped or transported to a laboratory under chain-of-custody.



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Upon request from the client, we will mobilize to the project site and collect water samples in the laboratory-supplied containers. Sample containers will be closed as soon as they are filled, placed into an iced cooler, and processed for shipment to the laboratory under chain of custody for analysis. We will request the laboratory analyze the collected water samples for the eight RCRA metals by SW-846 methods 6010 and 7470 (for mercury).

Task 3 – Limited Asbestos Assessment

With the approval of SCOR, S&ME previously conducted a limited asbestos physical condition assessment at the topside of 14 tanks on April 3, 2025. The assessment was requested to assess the condition of the assumed asbestos containing vinyl floor tiles and associated mastic at the topside of the 14 subject tanks in order to conduct spot-removal of the ACMs prior to cutting openings into the tanks to facilitate pumping activities. The limited asbestos assessment report was delivered to SCOR electronically on April 5, 2025.

S&ME proposes to conduct asbestos assessments as requested, limited to areas selected by SCOR, using EPA accredited and SCDES licensed inspectors. Up to four workdays (32 hours) are included as part of this scope. A visual assessment and sampling strategy will be developed per SCDES and NESHAP guidelines. Bulk samples may be extracted and submitted to a Polarized Light Microscopy (PLM) laboratory for identification of asbestos type and content in accordance with Title 40 Code of Federal Regulations Chapter 1 (1-1-87 edition), part 763, subpart F.

As required by the SCDES, suspect non-friable organically bound materials (i.e. vinyl flooring, mastic, caulking, glazing, etc.) exhibiting negative results by PLM analysis will be analyzed by Transmission Electron Microscopy (TEM); one sample of the representative negative material in accordance with ASTM E2356. The analytical laboratory that will be used is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) which is administered by the National Institute of Standards and Technology.

Upon completion of the fieldwork and receipt of bulk sample analyses, a written report will be provided, per area and mobilization, and will include the procedures used, bulk sample analysis results, findings, drawing noting location of confirmed ACM(s) and bulk samples, and conclusions and recommendations. Drawings provided by SCOR or Patriots Point will be modified to exhibit bulk sample locations and confirmed ACMs.

Task 3: Abatement Project Design

S&ME will develop up to two written Project Designs, prepared and submitted as Section 02 82 33 (Removal and Disposal of Asbestos Containing Materials) with construction drawings (if available), to support removal and disposal of designated ACMs and/or asbestos contaminated liquids. The design will address State and Federal regulations applicable to removal, transportation and disposal of friable and/or non-friable ACMs, and/or asbestos contaminated liquids. Diagrams (if available) will be provided to exhibit locations and quantities of ACMs and volumes of liquids, along with construction notes. S&ME will review the contractor's required submittals detailed in the design, if requested. The design will be prepared by a Project Designer licensed by the SCDES.

◆ Excluded Services

Without attempting to provide a complete list of all services or potential services that will be excluded from this proposal and performed by S&ME, the following services are specifically excluded from this proposal. Some of



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these services can be performed by S&ME, if desired. However, a separate proposal for these services would be required.

- Sampling or laboratory analysis other than those proposed herein.
- Hazardous waste permitting or management.
- Additional characterization, profiling, transportation, or disposal of water, oil, or other wastes or media.
- Laboratory analysis turnaround schedule beyond the capabilities of the laboratory;
- Other tasks identified in the USS *Yorktown* Environmental Assessment and Remediation Plan Technical Specifications not specifically mentioned in this Scope of Service.

◆ Limitations

This proposal is solely intended for the Basic Services as described in the Scope of Service. The Scope of Service may not be modified or amended, unless the changes are first agreed to in writing by SCOR and S&ME. Use of this proposal and corresponding final reports is limited to above-referenced project and client, and the client's assignees. No other use is authorized by S&ME.

The scope of service, conclusions, and recommendations are limited by the testing methods and equipment used based on applicable standards of normal practice in the geographic area at the time this work is performed. No other warranty, expressed or implied, is made.

◆ Client Responsibilities

To allow S&ME to complete the proposed scope of work, we require that the client provide the following:

- Access to the subject property, sampling locations, and media to be sampled in a manner that does not require entry into a permitted confined space;
- Notification/request for sampling; and
- Electronic drawings.

◆ Schedule

We are prepared to initiate fieldwork at a mutually agreed upon schedule, following receipt of your written authorization. Laboratory turnaround will be expedited; 1-3-days for PFAS, 5-days for metals, and 2-days for asbestos bulk samples. The written asbestos project designs will be provided within two weeks following your authorization.

◆ Fee

We propose to execute the Basic Services detailed in the Scope of Service, based on the attached fee schedule for a total estimated fee of **one hundred seventy-four thousand, seven hundred and two dollars (\$174,702)**. Any deviation from the Scope of Service specified herein, whether by client direction or by S&ME recommendation and client approval, may require an approved change order. If a change order is required, we will notify you of the change prior to conducting the work and will not perform the work without your prior authorization.



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◆ Authorization

If authorized, the applicable portion of work will be conducted in accordance with the State of South Carolina STC for Asbestos/Lead Paint/Mold Collection and Testing Contract No. 4400034379 (May 23, 2024 to May 23, 2029) between S&ME and the State of South Carolina.

◆ Closing

S&ME appreciates the opportunity to submit this proposal and provide you with our environmental services. Should you have any questions, please feel free to contact either of us at (843) 884-0005.

Sincerely,

S&ME, Inc.

Terry W. Richburg
Operations Manager – Industrial Hygiene

Christian Pullano, P.G.
Project Geologist

Attachment: I. Fee Estimate

Eric Fosmire
Chief of Staff & General Counsel

Attachment I – Fee Estimate

Fee Estimate for Environmental Sampling and Analysis
 USS Yorktown
 S&ME Proposal No. 24130479C Dated May 23, 2025



Task Description	Est Qty	Unit	Rate	Total
1. PFAS Sampling/Analysis				
Initial PFAS Sampling (Completed May 2, 2025)				
Additional fee per sample				
PFAS by EPA Method 1633 (5-day TAT %50 markup not initially included)	9	sample	\$ 300.00	\$ 2,700.00
			subtotal	\$ 2,700.00
Consulting Fees :				
Engineering Professional	6	hour	\$ 180.00	\$ 1,080.00
Project Manager	4	hour	\$ 215.00	\$ 860.00
Senior Engineer	2	hour	\$ 250.00	\$ 500.00
Admin	1	hour	\$ 100.00	\$ 100.00
			subtotal	\$ 2,540.00
Initial PFAS Effluent Sampling and Metals Sampling (Completed May 2, 2025)				
Fees for mobilizations (4 mobilizations)				
Engineering Professional	16	hour	\$ 180.00	\$ 2,880.00
Project Manager	4	hour	\$ 215.00	\$ 860.00
Daily Mobilization Rate	4	day	\$ 300.00	\$ 1,200.00
Sampling/PFAS-free Decontamination/PFAS-Free Equipment	4	day	\$ 100.00	\$ 400.00
Sample Shipping	4	each	\$ 250.00	\$ 1,000.00
			subtotal	\$ 6,340.00
Fees per sample				
PFAS by EPA Method 1633 (7-day TAT at no additional Markup)	1	sample	\$ 600.00	\$ 600.00
RCRA Metals by EPA Method 6010 (3-Day TAT at 100% Markup)	1	sample	\$ 180.00	\$ 180.00
Mercury by EPA Method 7470 (3-Day TAT at 100% Markup)	1	sample	\$ 90.00	\$ 90.00
PFAS by EPA Method 1633 (24-hour turnaround at %200 Markup)	4	sample	\$ 1,800.00	\$ 7,200.00
			subtotal	\$ 8,070.00
Consulting Fees :				
Engineering Professional	10	hour	\$ 180.00	\$ 1,800.00
Project Manager	6	hour	\$ 215.00	\$ 1,290.00
			subtotal	\$ 3,090.00
PFAS Water Sampling (As-Needed Budget)				
Estimated fees for mobilization (25 mobilizations)				
Engineering Professional	100	hour	\$ 180.00	\$ 18,000.00
Project Manager	25	hour	\$ 215.00	\$ 5,375.00
Daily Mobilization Rate	25	day	\$ 300.00	\$ 7,500.00
Sampling/PFAS-free Decontamination/PFAS-Free Equipment	25	day	\$ 100.00	\$ 2,500.00
Sample Shipping	25	each	\$ 250.00	\$ 6,250.00
			subtotal	\$ 39,625.00
Estimated fees per sample				
PFAS by EPA Method 1633 (1-3 day turnaround %100-200 Markup)	40	sample	\$ 1,800.00	\$ 72,000.00
			subtotal	\$ 72,000.00
Estimated Reporting Fees and Consulting Services (One Report at Project Completion):				
Project Geologist	16	hour	\$ 160.00	\$ 2,560.00
Engineering Professional	16	hour	\$ 180.00	\$ 2,880.00
Senior Engineer	4	hour	\$ 250.00	\$ 1,000.00
Admin	4	hour	\$ 100.00	\$ 400.00
			subtotal	\$ 6,840.00
			Task Total	\$ 141,205.00



Task Description	Est Qty	Unit	Rate	Total
2. Metals Sampling/Analysis (As-Needed Budget)				
Estimated fee for mobilization (5 mobilizations)				
Engineering Professional	20	hour	\$ 180.00	\$ 3,600.00
Project Manager	5	hour	\$ 215.00	\$ 1,075.00
Daily Mobilization Rate	5	day	\$ 300.00	\$ 1,500.00
Sample Shipping	5	each	\$ 150.00	\$ 750.00
			<i>subtotal</i>	\$ 6,925.00
Estimated cost per sample				
RCRA Metals by EPA 6010 (5-day turnaround)	5	sample	\$ 180.00	\$ 900.00
Mercury by EPA 7471 (5-day turnaround)	5	sample	\$ 98.00	\$ 490.00
			<i>subtotal</i>	\$ 1,390.00
			Task Total	\$ 8,315.00
3. Asbestos Assessment and Design Services				
<u>State Contract No. 4400034379 dated May 19, 2024 to May 19, 2029)</u>				
Estimated cost per mobilization (anticipate 4)				
Asbestos Inspector	32	hour	\$ 95.00	\$ 3,040.00
Asbestos Report Preparation	40	hour	\$ 90.00	\$ 3,600.00
PLM Analysis (same-day turnaround)	30	each	\$ 20.00	\$ 600.00
TEM Analysis (1-day turnaround)	6	each	\$ 87.00	\$ 522.00
			<i>subtotal</i>	\$ 7,762.00
<u>Additional Services</u>				
Senior Review	4	hour	\$ 215.00	\$ 860.00
Project Designer	30	hour	\$ 215.00	\$ 6,450.00
CAD Technician	20	hour	\$ 105.00	\$ 2,100.00
Administrative	8	hour	\$ 100.00	\$ 800.00
Sample Shipping	4	each	\$ 25.00	\$ 100.00
			<i>subtotal</i>	\$ 10,310.00
			Task Total	\$ 18,072.00
4. Progress Meetings				
Project Manager	18	hour	\$ 215.00	\$ 3,870.00
Engineering Professional	18	hour	\$ 180.00	\$ 3,240.00
			Task Total	\$ 7,110.00
Total Professional Services Cost Estimate				\$ 174,702.00

Note: Client will only be invoiced for the actual samples analyzed at the turnaround received.