Request for Quotes (RFQ) – Long Island Sound Partnership

Project: Phase 2 of Economic Feasibility Market Study for Nutrient Bioextraction Industry in the Long Island Sound

Release Date: March 2nd, 2026

Bid Submission Deadline: Accepting applications until a contractor is selected

1. Background - Overview of NEIWPCC, Long Island Sound Partnership, NYSDEC's Long Island Watershed Program and Bioextraction Initiative:

The New England Interstate Water Pollution Control Commission (NEIWPCC), in cooperation with the Long Island Sound (LIS) Partnership National Estuary Program and the New York State Department of Environmental Conservation (NYSDEC), is inviting bids from contractors with expertise in seaweed aquaculture, environmental economics, and economic development. NEIWPCC is a regional commission that helps the states of the Northeast preserve and advance water quality. We engage and convene water quality professionals and other interested parties from New England and New York to collaborate on water, wastewater, and environmental science challenges across shared regions, ecosystems, and areas of expertise. Our mission is to advance clean water in the Northeast through collaboration with, and service to, our member states. NEIWPCC's vision is for clean and sustainable water throughout the Northeast. We base our work on the core values of leadership, collaboration, education, service, and science.

The LIS Partnership is a cooperative effort involving researchers, regulators, user groups, and other concerned organizations and individuals working to protect and improve the health of the Long Island Sound. NEIWPCC has a cooperative agreement with U.S. Environmental Protection Agency (EPA) to support implementation and coordination of the Clean Waters and Healthy Watersheds goal, including the Nutrient Bioextraction Initiative, as identified in the Comprehensive Conservation and Management Plan (CCMP).

NYSDEC launched the Nutrient Bioextraction Initiative in 2018 as part of the Long Island Watershed Program (LIWP), formerly known as the Long Island Nitrogen Action Plan (LINAP). The Nutrient Bioextraction Initiative aims to improve water quality in New York (NY) and Connecticut (CT) marine waters by promoting bioextraction efforts as a nutrient management strategy, with the vision of a self-sustaining bioextraction industry that provides both environmental and economic benefits.

Bioextraction is the process of removing excess nutrients like nitrogen from local waters through the cultivation and harvest of seaweed and shellfish, also known as aquaculture or aquafarming. As shellfish and seaweed grow, they naturally absorb nutrients that are then removed from the water when they are harvested, providing nutrient-rich material that can be processed into desirable products on the market. The Bioextraction Initiative's goal is to better understand the water quality benefits achieved through seaweed and shellfish cultivation and resulting nutrient bioextraction. The Initiative fosters coordination among experts in the field to identify research topics, nutrient removal rates, technical bottlenecks, and

potential challenges related to bioextraction industries; encourages communication between growers, researchers, and other resources; and shares the information and research publicly.

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2. Project Summary and Goal:

This Phase 2 study will extend on a previously funded and completed Phase 1 study, which investigated the economic feasibility of establishing a commercial bioextraction industry in Long Island Sound. The Phase 1 study identified native seaweeds and shellfish that were most effective at nutrient bioextraction based on nitrogen uptake rates, growth rates, and year-round habitat suitability in Long Island Sound; the most profitable and feasible market opportunities after harvest; and the barriers to commercial bioextraction industry establishment.

Commercial seaweed cultivation is an emerging industry in the U.S., with the state of Maine accounting for most seaweed production in the Northeast states. While Maine began commercial cultivation of seaweed in 2010, New York State issued their first commercial seaweed cultivation permit in 2023. Commercial seaweed cultivation in Connecticut began after legislation was passed in 2013 to allow for a permit process to begin. However, Connecticut growers have struggled to profit due to lack of local processing facilities needed to process harvested material and lack of a market demanding a consistent high volume of local seaweed. In contrast, Maine has both first-stage processing facilities to dry, blanch, and freeze seaweed for long-term storage and second-stage processing facilities to create diverse non-food consumer-ready products (National Sea Grant Seaweed Hub 2024).

As the Phase 1 study recognized, the bottlenecks to establishing a commercial bioextraction industry in Long Island Sound are: (1) lack of startup resources and capital, (2) lack of large-scale processing facilities for non-food products made with seaweed, and (3) navigating the regulatory environment to obtain a required seaweed cultivation permit and lease. The Phase 1 study determined that if the identified barriers were addressed, commercial bioextraction can feasibly be a profitable industry. Thus, this Phase 2 study was initiated to identify recommended actions to address these bottlenecks, particularly #1 and #2, in support of scaling local bioextraction efforts to a commercial bioextraction industry, with a focus on seaweed only.

The goal of this Phase 2 project is to identify prioritized, actionable recommendations to address the bottlenecks identified by the Phase 1 study and bridge the gap between small-scale bioextractive seaweed activity and a profitable, self-sustaining commercial bioextraction industry in New York and Connecticut. Phase 2 project findings will be compiled in a comprehensive report with all listed deliverables. The recommendations will be distributed to relevant stakeholders to help understand the economic viability and to inform future efforts and strategies needed that could support a non-food commercial seaweed bioextractive aquaculture industry in Long Island Sound. This project contributes to the overall goal of the Bioextraction Initiative to reduce nitrogen to improve water quality in the Long Island Sound.

3. General Guidelines for Applicants

Eligibility:

Applicants who are eligible to submit proposals in response to this RFP include: federal (non-EPA), state, or local government agencies; interstate agencies; private non-profit organizations and institutions; for-profit organizations; and academic or educational institutions. Eligible applicants located outside of the Long Island Sound watershed may submit a proposal as long as the proposal documents that its objectives support the technical and logistical requirements and management priorities of the Partnership. Ideal applicants will have expertise in seaweed aquaculture, environmental economics, and/or economic development.

Bid Submission:

Bid proposal submission should include:

- A quote with total cost and general cost breakdown
- CV(s) or description of qualifications
- A writing sample relevant to tasks outlined below or proposal of work

Bids in the amount of up to $100,000 will be considered. **Please submit your bid to:** NEIWPCC's online Bid Submittal Form, following instructions on the webpage.

Questions about the RFQ or bid submission process should be directed to Kimarie Yap, NEIWPCC Environmental Analyst and NYSDEC Bioextraction Coordinator, at kimarie.yap@dec.ny.gov.

Period of Performance:

The required tasks and deliverables shall be provided by end of contract term, with an expected contract period of 12-15 months.

Evaluation Criteria:

All bid submissions will be screened for relevance, accuracy, and completeness. Bid proposals will then be evaluated based on the extent to which they meet the following criteria:

- Expertise in seaweed aquaculture, environmental economics, and/or economic development (20%)
- Demonstrated experience in developing market-demand analysis reports and/or market development strategies (20%)
- Experience and skillset of the contractor's team (15%)
- Demonstrated ability to work collaboratively, communicate well throughout the process, and meet client expectations (15%)
- Experience working with nonprofit and state agencies (5%)
- Appropriate and cost-effective budget (25%). Bids with costs up to $100,000 will be considered, but cost and the relative value of work products will be a factor in evaluating submissions. Adequacy of the

proposed budget to accomplish objectives and adequacy of justification in explaining the need for resources for this project.

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4. Scope of Work:

All tasks in this Phase 2 study should focus specifically on the following seaweed taxa and market opportunities (based on the Phase 1 study):

Seaweed species:

- *Ulva* spp. (Sea Lettuce) – top ranking bioextractive seaweed genus
- *Saccharina latissima* (Sugar kelp) – seaweed species commercially grown in Long Island Sound and other coastal waters of New York and Connecticut

Recommended product markets:

- Short-term (1-3 years), high-feasibility: fertilizer amendment (biostimulant), cosmetics
- Long-term (>3 years): biofabrics, bioplastics, construction materials, nutraceuticals, pharmaceuticals

Task A: Current State Analysis of Seaweed Industries in New York and Connecticut and Regional Market Assessment

Objective: The Consultant(s) will assess the present industry landscape in New York and Connecticut. The Consultant(s) will produce a focused regional market-demand analysis for prioritized non-food seaweed products (using the seaweed species and product markets listed above) to inform business planning and funding readiness for processing infrastructure.

Deliverables (submit editable and PDF versions):

1. Current State Report (executive summary + full analysis with detailed findings)
2. Regional Market-Demand Report (market size, segments, buyer needs)
3. Interview summaries and anonymized data tables (optional task)
4. Capacity map (facilities, infrastructure, hatcheries) with GIS-ready layer (optional task)
5. Confidential aggregate grower/hatcher data appendix (if applicable)
6. One-page investor-readiness summary for processing investments

Scope and Subtasks:

Subtask 1: Industry & Processing Inventory

- Identify and describe all first-stage processing facilities in NY and CT (drying, blanching, freezing, storage): location, owner/operator, capabilities, current utilization, and maximum annual throughput.
- Identify and describe all second-stage processors that use seaweed for consumer-ready non-food products: location, capabilities, product types, and maximum processing capacity.

- Inventory existing infrastructure that could be repurposed for seaweed processing (cold storage, food-grade kitchens, commercial dryers, ports, trucking, rail, etc.), including ownership and estimated availability.
- Provide logistical factors affecting the utilization of existing or potential processing facilities, such as proximity to growers and markets or availability of necessary infrastructure.
- For each facility, report regulatory status and any certifications relevant to non-food processing.

Subtask 2: Product & Market Mapping

- Catalog commercial non-food products made with NY/CT-grown seaweed and the form of seaweed used (dried, blanched, fresh, concentrated extract, etc.)
- Identify businesses (manufacturers, brands, processors) currently using or interested in using NY/CT seaweed. Document their required product specifications, volumes, seasonality, quality parameters, price expectations, and contractual preferences.
- Map short-term (fertilizer amendment/biostimulant, cosmetics) and long-term (biofabrics, bioplastics, construction materials, nutraceuticals, pharmaceuticals) market opportunities. Note expected timelines to commercial viability.

Subtask 3: Regional Market-Demand Analysis

- Estimate current and forecast mid-term (5-year) regional demand (annual tons and monetary revenue) in NY and CT for prioritized non-food products using *Ulva* spp. and *Saccharina latissima* (sugar kelp). Use triangulated methods (industry data, buyer interviews, market reports, proxies from similar regions).
- Segment demand by buyer type (manufacturers, agriculture/landscaping, cosmetics brands, bulk ingredient suppliers) and use-case.
- Assess price sensitivity, acceptable quality/processing forms, minimum order quantities, and seasonality constraints.
- Identify direct substitutes and competing suppliers (domestic and imported). Evaluate barriers to market entry for NY/CT-grown seaweed-based non-food products.
- Provide a conservative, base, and optimistic scenario for demand and price over a 5-year horizon.

Optional Task A Subtasks:

Subtask 4 (Optional but recommended): Grower & Hatchery Capacity

- Report the current number of commercial and non-commercial seaweed growers in NY and CT (aggregate counts to protect confidentiality), estimated annual landings/production volumes, and seasonality patterns. If fewer than three entities exist, note need for direct contact and confidentiality protocols.
- Identify local hatcheries/seed-string suppliers, their production capacities, and geographic service areas. If fewer than three entities exist, note need for direct contact and confidentiality protocols.

Subtask 5 (Optional but recommended): Stakeholder engagement and interviews

- Conduct and summarize interviews with a minimum set of key informants, such as: seaweed regulatory agencies, NY and CT Sea Grant specialists/researchers, current growers, processors, product manufacturers, and relevant non-profits.

- Provide anonymized interview notes and a synthesis of common themes, buyer requirements, and reported bottlenecks.

Subtask 6 (Optional but recommended): GIS Capacity Map

- Produce a GIS-ready layer and PDF map showing locations (or potential locations) of growers (generalized), processing facilities, potential repurposable infrastructure, ports, and transport links, with notes on capacity and constraints.

Subtask 7 (Optional): Regulatory & Standards Review

- Compile regulatory standards and permitting requirements relevant to processing seaweed for non-food uses in NY and CT (including waste/discharge, occupational safety, transport, labeling where applicable)
- Identify any gaps or constraints that would affect processing scale-up or product marketability.

Task B: Current State Analysis of Maine's Seaweed Industry

Objective: The Consultant(s) will assess Maine's processing, market, financing, and customer ecosystem as transferable benchmarks and actionable inputs for scaling seaweed bioextraction and non-food product markets in New York and Connecticut. Information should begin with key resources identified in the Phase 1 study.

Deliverables (submit editable and PDF versions):

1. Maine Industry Report (executive summary + full analysis with detailed findings)
2. Customer-Base Appendix (anonymized aggregate data)
3. Processing Capacity Inventory (facility list, capabilities, max throughput)
4. Financing & Support Mechanisms Memo (public/private funding sources, partnership models)
5. Transferability Memo (how Maine lessons map to NY/CT, with adjustment factors)
6. Interview logs (anonymized) and synthesis of key themes (optional task)

Scope and Subtasks:

Subtask 1: Industry & Processing Inventory

Catalog Maine's first-stage and second-stage processing facilities: location, owner/operator, capabilities (drying, blanching, freezing, extraction, secondary product manufacturing), current utilization, maximum annual throughput, regulatory/certification status, and typical lead times.

- Identify existing infrastructure and repurposeable assets (cold storage, commercial kitchens, ports, transport/logistics) and their availability for seaweed processing.
- Estimate the scale of processing capacity historically required to support Maine's seaweed production and current industry needs.

Subtask 2: Customer-Base Analysis

- Identify and profile key customer types purchasing Maine-sourced non-food seaweed products (manufacturers, ingredient formulators, cosmetics firms, agricultural buyers, industrial users, distributors/wholesalers).
- For each customer type, document: typical forms of seaweed (product) purchased (dried, blanched, fresh, concentrates/extracts, etc.), annual volumes or purchase ranges, seasonality,

price expectations, quality/spec tolerances, minimum order quantities, contract preferences (spot vs. offtake/multi-year), geographic markets served, and propensity for local sourcing.

- Produce a customer-characteristics matrix (purchase frequency, concentration/top buyers, willingness to pay premium for local product, critical quality attributes).
- Produce a customer-characteristics matrix (purchase frequency, concentration/top buyers, willingness to pay premium for local product, critical quality attributes).
- Aggregate and anonymize buyer data so no individual customer is identifiable.

Subtask 3: Market Linkages & Contracting Mechanisms

- Document how Maine businesses, organizations, and government-facilitated contracts that link growers to processors and product manufacturers (e.g., offtake agreements, cooperatives, broker models).
- Assess effectiveness of cooperative and collective marketing strategies in aggregating supply and securing buyer commitments.

Subtask 4: Financing, Incentives, & Support Mechanisms

- Inventory funding mechanisms and financial instruments that supported Maine's industry growth: grants, state/federal programs, low-interest loans, tax incentives, reimbursements, seed capital, insurance products, public-private partnerships, impact investment, and cooperative financing models.
- Identify key financing intermediaries and private investor types (venture capital, impact investors, strategic corporate investors, agriculture/blue-economy funds, family offices, non-profits) that participated or could participate.
- Provide a prioritized list of private funding sources and public-private partnership models applicable to processing and supply-chain scale-up, including contactable examples where available.
- Conduct and summarize interviews with at least 3 private investors or financing intermediaries experienced in aquaculture, ag-tech, blue economy, or early-stage ingredient/processing ventures. Document investor criteria (expected returns, deal structures, proof points required, timelines, perceived risks and mitigations).

Subtask 5: Supply-Chain & Cooperative Structures

- Analyze how Maine formed grower cooperatives or aggregation mechanisms, including governance models, logistics, pricing arrangements, and success metrics.
- Estimate the role of cooperatives in enabling processors to obtain consistent volumes and quality.

Subtask 6: Transferability & Benchmarks for NY/CT

- Identify Maine success factors that are transferable to NY/CT and those that are context-specific. Provide adjustment factors or scenarios to translate Maine customer demand, processing scale, and financing models into NY/CT estimates.
- Recommend which Maine strategies (cooperatives, offtake contracts, public incentives) should be piloted in NY/CT and how they should be adapted.

Optional Task B Subtasks:

Subtask 7 (Optional but recommended): Case Studies & Comparative Examples

- Include brief case studies from other U.S. states or international regions where seaweed industries scaled successfully, highlighting financing, customer development, and processing pathways.

Subtask 8 (Optional but recommended): Interviews & Stakeholder Engagement

- Conduct structured interviews with key informants, such as: Maine commercial seaweed growers, processors, product manufacturers, financing intermediaries, relevant state agencies, Sea Grant specialists, and supporting non-profits.
- Provide anonymized interview notes and a synthesis of common themes, buyer requirements, barriers, and successful interventions.

Subtask 9 (Optional): Policy, Permitting & Regulatory Landscape

- Describe Maine's regulatory environment for seaweed cultivation and processing, including leasing/permit processes, processing standards, and any policies that materially reduced barriers to scaling.
- Note distinctions between Maine's regulatory approach and NY/CT where relevant.

Task C: Recommendations to Scale NY and CT's Seaweed Industries

Objective: Usings findings from Tasks A and B, the Consultant(s) will provide prioritized, actionable recommendations to bridge the gap between the current small-scale local seaweed industries in NY and CT to a profitable, self-sustaining commercial bioextraction and non-food seaweed product industry. Recommendations must explicitly address processing capacity scale-up, market development, and pathways to private and public-private financing.

Deliverables (submit editable and PDF versions):

1. Recommendations Report (executive summary + full analysis)
2. Processing Facilities & Equipment Catalog with capital and O&M cost estimates (for both first-stage and second-stage processing facilities)
3. Product-Form & Market Match Matrix (recommended processed forms mapped to buyer segments and markets)
4. Financing & Investor Engagement Brief (investor interview summaries, prioritized funding sources, indicative capital stacks)
5. Cooperative & Contracting Strategy Memo (aggregation models, offtake options, legal/operational considerations)
6. Prioritized Action list with estimated costs, resources, timeline, and SMART success metrics
7. Implementation Risk Matrix with mitigation strategies
8. One-page funding pitch template and two sample investor pitch outlines tailored to processing and supply-chain investments in NY/CT (optional)

Scope and Subtasks:

Subtask 1: Scale Requirements & Benchmarks

- Using Tasks A and B outputs (demand forecasts, Maine processing benchmarks, conversion/yield factors), estimate how much local seaweed production and processing capacity NY and CT must reach to:

  - Sustain profitable coastal seaweed growers, and
  - Support short-term (fertilizer/biostimulant, cosmetics) and long-term (biofabrics, bioplastics, construction materials, nutraceuticals/pharmaceuticals) non-food markets identified in Task A.
- Provide scale estimates in annual tons, required processing throughput (by process type), and indicative numbers of farms/processors required under conservative/base/accelerated scenarios.

Subtask 2: Recommended Product Forms & Processing Pathways

- Recommend the optimal processed product forms for each prioritized market (e.g., dried, blanched, frozen, concentrated extracts, freeze-dried, pre-processed powders) based on buyer requirements, shelf life, value-add, and processing complexity.
- For each recommended form, specify required first-stage and second-stage processing steps, typical yields and loss rates, and quality control parameters.

Subtask 3: Processing Infrastructure & Costing

- Identify and provide the cost for the types and scale of first-stage and second-stage processing facilities/equipment needed to support the short-term and long-term markets: capital expenditure ranges, estimated operations & maintenance costs, staffing needs, and typical throughput capacities.
- Provide site-/asset-based infrastructure options: new build, retrofit of existing regional assets, or distributed micro-processing hubs (with pros/cons and indicative cost comparisons).
- Identify existing regional firms or facility operators that could host or partner on processing (contract manufacturers, food processors, cold storage operators).

Subtask 4: Market Development & Offtake Strategies

- Recommend approaches to secure buyer commitments and stable demand (offtake agreements, preferred supplier programs, pilot contracts, specification standardization).
- Propose market development approaches for short-term markets (fertilizer/biostimulants, cosmetics) and staged approaches for higher-value long-term markets (biofabrics, bioplastics, construction materials, nutraceuticals/pharmaceuticals), including pilot product development, co-development partnerships, and certification/branding strategies (e.g., “locally grown,” sustainability credentials).

Subtask 5: Financing Strategy & Investor Engagement

- Recommend novel funding mechanisms that blend public and private funds, such as a water quality trading market, a payment for ecosystem services scheme, or other emergent market mechanisms.
- Provide a prioritized list of private funding sources and investor types (venture capital, impact investors, strategic corporate investors, agriculture/blue economy funds, family offices), plus public funding and public-private partnership models (grants, loan programs, tax incentives, loan guarantees, blended finance).
- Develop indicative capital stacks for recommended processing investments (size ranges, equity/debt/grant splits, potential public supports).
- Conduct and summarize interviews with at least three private investors or financing intermediaries experienced in aquaculture, ag-tech, industrial food/ingredient processing, or blue-economy investments. For each interview, document investor criteria (expected returns, preferred deal structure, proof points needed, timelines, key risks, and mitigation expectations).

- Recommend de-risking measures (e.g., offtake guarantees, anchor buyers, phased capital deployment, public loan guarantees, matching grants) that would increase investor interest. Map which measures are most relevant for small vs. large processing investments.

Subtask 6: Aggregation, Cooperative & Supply-Chain Models

- Evaluate aggregation strategies (grower cooperatives, centralized aggregators, contract farming, broker models) and recommend structures most likely to ensure consistent supply, quality, and volume to processors.
- Provide governance, pricing, and logistics considerations, plus sample contractual terms for cooperative or offtake arrangements.
- Estimate costs and timeline to implement aggregation pilots.

Subtask 7: Workforce, Training & Technical Assistance Needs

- Identify workforce roles for scaled operations and recommend training programs, technical assistance, and institutional partners (e.g., community colleges, Sea Grant, extension services) to build needed capacity.

Subtask 8: Prioritization, Timeline & Costing of Actions

- Produce a prioritized action list with short-term (0-2 years), medium-term (2-5 years), and long-term (>5 years) items. For each action, provide: responsible parties, estimated cost and resource requirements, expected outcomes, SMART success measures, and critical dependencies.
- Provide a recommended sequencing of actions that aligns market development, processing build-out, and financing availability.

Subtask 9: Risk Assessment & Contingency Planning

- Identify top implementation risks (market, regulatory, operational, financing, environmental) and provide mitigation strategies and contingency plans.
- Identify uncertainties that may introduce risks to a burgeoning seaweed industry, such as environmental variability and crop insurance, local opposition to aquaculture development, or long-term shifting baselines, such as warming water temperatures or consumer preferences.

Subtask 10: Integration from tasks A and B; Format and Confidentiality

- Recommendations must be clearly traceable to Task A demand forecasts and Task B Maine benchmarks.
- Deliver all quantitative inputs and cost models in machine-readable format (Excel .XLSX/.CSV) with documented assumptions and sensitivity ranges.
- Aggregate and anonymize any confidential grower, buyer, or investor data; follow project confidentiality protocol and document any data gaps or low-confidence estimates.

Optional Task C Subtasks:

Subtask 11 (Optional): Policy, Regulatory & Institutional Recommendations

- Identify specific regulatory changes, permitting streamlining, or policy mechanisms in NY and CT that would reduce barriers to scaling (leasing, permitting, processing standards, tax incentives), drawing comparisons to Maine successes.
- Recommend short-term policy actions that agencies could undertake to catalyze private investment and processing scale-up.

Subtask 12 (Optional): Investor-Ready Materials

- Provide a one-page investor summary (market opportunity, ask, use of funds, returns horizon, de-risking points).
- Provide two tailored investor pitch outlines (one for a small/medium processing facility + supply aggregation pilot; one for a larger centralized processing facility), with key data points drawn from Tasks A and B.

5. Additional Deliverables:

At a minimum, additional deliverables will include:

- Quality Assurance Project Plan (QAPP), approved by NEIWPCC, NYSDEC, and EPA*
- Quarterly progress reports
- Quarterly progress conference calls with NYSDEC and NEIWPCC, and as needed
- Final comprehensive report which will be reviewed by NYSDEC and NEIWPCC, to include:
    - Task A: Current State Analysis of Seaweed Industries in New York and Connecticut and Regional Market Assessment
    - Task B: Current State Analysis of Maine's Seaweed Industry
    - Task C: Recommendations to Scale NY and CT's Seaweed Industries

NEIWPCC will provide guidance and support for developing the QAPP, quarterly reports, and final report.

*Note: Development and approval of the QAPP must be completed prior to environmental information operations. It can be completed as a task under this project and should be included in the proposal narrative, timeline, and budget. While preparing your proposal, please account for the additional time and resources necessary for QAPP development. Allow a minimum of 30 days for the development of your QAPP and 90 days for the review and approval of your QAPP by NEIWPCC, NYSDEC and EPA QA officers. For more information about QAPPs, see NEIWPCC's Quality Management Program and EPA's Quality Assurance Plan Standard.

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6. Reference Information:

- NYSDEC Nutrient Bioextraction Initiative webpage
- Long Island Sound Partnership Nutrient Bioextraction Initiative webpage
- Phase 1 Report for Economic Feasibility Study of a Commercial Bioextraction Industry in Long Island Sound
- National Sea Grant Seaweed Hub 2022-2024 Status of U.S. Seaweed Aquaculture