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## Inland Sea – Harlan LLC Plans to Raise Salmon in Iowa

Site advantages and human health benefits of product factor in decision

For Immediate Release: August 23, 2016

Harlan, Iowa – Why raise salmon in land-locked Iowa? Inland Sea – Harlan LLC recognizes the benefits of the site identified for the facility to be built near Harlan, Iowa, including available, low cost utilities, water, and access to transportation. Reviewing extensive research, they also believe salmon to be an important protein source with well-documented health benefits. The issue is access to quality product in the middle of the U.S.

In a white paper written by Lyndi Buckingham, RDN, LD, PhD Candidate at Iowa State University, the nutritional profile and benefits of Atlantic salmon were detailed. Buckingham describes salmon as an oily fish which is rich in omega-3 long chain polyunsaturated fatty acids, specifically eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA). She also identifies the fish as a great source of lean protein as well as a good source of calcium and vitamin B-12. The white paper is available at <http://inland-sea.com/images/nutrition.pdf>.

“Omega-3 long chain fatty acids are critical for brain function, cardiovascular health, and fetal development,” Buckingham wrote. “It is important to eat salmon or other seafood sources to ensure you are getting the recommended amount of EPA plus DHA on a daily basis.”

Buckingham noted results of a large prospective study indicating a reduction in cardiac mortality of ~35 percent with a total intake of 250 to 500 mg per day of EPA and DHA. This equates to approximately eight to 12 ounces of Atlantic salmon. Additionally, Buckingham cited studies showing omega-3 fatty acids having a positive effect on chronic mental health issues and age-related cognitive impairments. “...people who consumed 500 grams or more of fish per week had a 16 percent lower risk of dementia and 36 percent lower risk of AD {Alzheimer’s disease} when compared to those in the lowest intake category,” she wrote. Other benefits of Omega-3 fatty acids relate to fetal development, particularly fetal eye and brain development.

Current Dietary Guidelines for Americans (DGA) call for adults to consume at least 8 to 12 ounces of seafood per week, per Buckingham’s paper. “The 2015 DGA also encourages the consumption of wild or farmed seafood, aiming to improve the nutrient profile of certain farmed seafood species through improved feeding and processing systems,” she wrote. “The evidence reviewed by the 2015 DGA committee demonstrates that, in the species examined, that farm-raised seafood has as much or more EPA and DHA per serving as wild caught species.”

Other key points from Buckingham’s research include:

- EPA and DHA was the same, if not higher, in farm-raised species compared to wild caught
- Farm-raised species composition is more consistent due to amount and make-up of feed
- Salmon can provide all necessary and essential fat for the adult diet

Inland Sea – Harlan believes there is a global need to increase and shift salmon production to scalable, sustainable methods like those proposed by the company.



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“Data and research confirm the value of salmon in the adult diet,” remarked Jackson Kimle, Vice President of Business Development at Inland Sea. “Our plan is to provide the high quality supply of farm-raised salmon needed for growing U.S. demand. It’s great tasting and it’s great for your health.”

Construction of the near-\$30 million facility is anticipated to begin in 2016 with first harvest planned for 2018.

The proposed facility will include a technologically advanced, highly automated recirculating grow-out tank system designed to capture economies of scale and world-class biosecurity. When fully operational, Inland Sea – Harlan expects to produce and harvest approximately 5.3 million pounds annually and projects annual revenues of approximately \$16 to \$20 million, depending upon prices and actual salmon production, with annual earnings between approximately \$4 and 7 million.

Inland Sea – Harlan plans to seek approximately \$12 million in equity capital from accredited investors in a 506(c) private placement offering to finance a portion of the construction and operating costs for the proposed recirculating aquaculture system facility. The balance of the project financing is expected to be funded with senior debt financing. The company will launch its equity drive with a meeting for interested investors on September 6, 2016, in Harlan with additional meetings planned as follows:

September 6 – **Harlan** CG Therkildsen Activity Center, 706 Victoria Street, Harlan

September 7 – **Des Moines** Citizens Community Choice Credit Union Convention Center, 833 5<sup>th</sup> Avenue

September 8 – **Sioux City** Stoney Creek Inn (Pioneer Room), 300 3<sup>rd</sup> Street

September 12 – **Mason City** NIACC Muse Norris Conference Center, 500 College Drive

September 13 – **Cedar Rapids** Marriott, 1200 Collins Road

September 15 – **Council Bluffs** Mid-America Center (Club Room – upstairs), One Arena Way

All meetings begin at 1:30 pm.

An accredited investor must have a net worth of at least one million US dollars, excluding the value of one's primary residence, or have income at least \$200,000 each year for the last two years (or \$300,000 combined income if married) and have the expectation to make the same amount this year.

See [www.inland-sea.com](http://www.inland-sea.com) for full disclaimers, meeting schedule, and other information.

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