



BIOLOGICAL CONSULTING SERVICES
OF NORTH FLORIDA, INC.

September 10, 2015

Ying Fong
Talun Eco-Products Inc.
669 Cooper St.
Ottawa ON K1R 5J3
613-890-1665

Client ID: Seaweed Extract/Kelp Extract Powder 2015.5.25, Seaweed Extract/Kelp Extract Powder 2015.6.14,
Seaweed Extract/Kelp Extract Powder 2015.6.02, Seaweed Extract/Kelp Extract Powder 2015.4.20

BCS ID: 1508240, 1508241, 1508242, 1508243

Dear Ying Fong,

We have completed the analysis of the submitted samples as outlined below.

Project Name: Seawinner

Analysis	Method
Salmonella	EPA 1682; BCS SOP M-4
Fecal Coliforms MPN	EPA 1681; SM 9221E; BCS SOP B-4
Fecal Enterococci/Streptococci	SM 9230 B; BCS SOP B-5

Following, you will find our report on the results of the analysis conducted on the referenced samples. Should you have any questions, please do not hesitate to contact me.

Sincerely,

George Lukasik, Ph.D.
Laboratory Director

BCS LABORATORIES, INC. — GAINESVILLE
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FL DOH #E82924, ISO/IEC 17025:2005 L2422 (L-A-B), PA DEP# 68-03950, EPA# FLO1147
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Client: Talun Eco-Products Inc.
Analysis: *Salmonella*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.5.25 BCS Sample ID: 1508240
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.2
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:06 Analysis Stop Date: August 29, 2015 13:00
Primary Value: ≤ 0.03 Salmonella MPN/mL sample analyzed
Secondary Value: ≤ 0.1 Salmonella MPN/4 dry grams
Qualifier: U
Analysis Notes: Analysis results: <1 CFU/25 g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.
Analysis: *Fecal Coliforms MPN*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.5.25 BCS Sample ID: 1508240
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.2
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:06 Analysis Stop Date: August 28, 2015 16:00
Primary Value: ≤ 0.18 Fecal Coliforms MPN/mL sample analyzed
Secondary Value: ≤ 0.2 Fecal coliforms/dry gram
Qualifier: U
Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.

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Client: Talun Eco-Products Inc.
Analysis: *Fecal Enterococci/Streptococci*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.5.25 BCS Sample ID: 1508240
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.2
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:06 Analysis Stop Date: August 29, 2015 15:00
Primary Value: ≤ 0.18 Microorganism MPN/mL sample analyzed
Secondary Value: ≤ 0.2 Microorganisms/dry gram
Qualifier: U
Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.
Analysis: *Salmonella*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.6.14 BCS Sample ID: 1508241
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.1
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:31 Analysis Stop Date: August 29, 2015 13:00
Primary Value: ≤ 0.03 Salmonella MPN/mL sample analyzed
Secondary Value: ≤ 0.1 Salmonella MPN/4 dry grams
Qualifier: U
Analysis Notes: Analysis results: <1 CFU/25 g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.
Analysis: *Fecal Coliforms MPN*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.6.14 BCS Sample ID: 1508241
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.1
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:31 Analysis Stop Date: August 28, 2015 16:00
Primary Value: ≤ 0.18 Fecal Coliforms MPN/mL sample analyzed
Secondary Value: ≤ 0.2 Fecal coliforms/dry gram
Qualifier: U
Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed;
Value represents the method's detection limit for the amount of sample analyzed as per
the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.
Analysis: *Fecal Enterococci/Streptococci*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.6.14 BCS Sample ID: 1508241
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.1
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:31 Analysis Stop Date: August 29, 2015 15:00
Primary Value: ≤ 0.18 Microorganism MPN/mL sample analyzed
Secondary Value: ≤ 0.2 Microorganisms/dry gram
Qualifier: U
Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed;
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Client: Talun Eco-Products Inc.
Analysis: *Salmonella*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.6.02 BCS Sample ID: 1508242
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.3
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:56 Analysis Stop Date: August 29, 2015 13:00
Primary Value: ≤ 0.03 Salmonella MPN/mL sample analyzed
Secondary Value: ≤ 0.1 Salmonella MPN/4 dry grams
Qualifier: U
Analysis Notes: Analysis results: <1 CFU/25 g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.
Analysis: *Fecal Coliforms MPN*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.6.02 BCS Sample ID: 1508242
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.3
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:56 Analysis Stop Date: August 28, 2015 16:00
Primary Value: ≤ 0.18 Fecal Coliforms MPN/mL sample analyzed
Secondary Value: ≤ 0.2 Fecal coliforms/dry gram
Qualifier: U
Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.



Client: Talun Eco-Products Inc.
Analysis: *Fecal Enterococci/Streptococci*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.6.02 BCS Sample ID: 1508242
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 96.3
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 15:56 Analysis Stop Date: August 29, 2015 15:00
Primary Value: 0.18 Microorganism MPN/mL sample analyzed
Secondary Value: ≤0.2 Microorganisms/dry gram
Qualifier: U
Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.
Analysis: *Salmonella*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.4.20 BCS Sample ID: 1508243
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 97.8
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 16:23 Analysis Stop Date: August 29, 2015 13:00
Primary Value: ≤0.03 Salmonella MPN/mL sample analyzed
Secondary Value: ≤0.1 Salmonella MPN/4 dry grams
Qualifier: U
Analysis Notes: Analysis results: <1 CFU/25 g; Undetected: Analyte was not detected in the sample analyzed; Value represents the method's detection limit for the amount of sample analyzed as per the method's standard reporting units
Sampling date/time not provided.

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Client: Talun Eco-Products Inc.
Analysis: *Fecal Coliforms MPN*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.4.20 BCS Sample ID: 1508243
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 97.8
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 16:23 Analysis Stop Date: August 28, 2015 16:00
Primary Value: ≤ 0.18 Fecal Coliforms MPN/mL sample analyzed
Secondary Value: ≤ 0.2 Fecal coliforms/dry gram
Qualifier: U
Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed;
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the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.
Analysis: *Fecal Enterococci/Streptococci*
Project Name: Seawinner
Client Sample ID: Seaweed Extract/Kelp Extract Powder 2015.4.20 BCS Sample ID: 1508243
Sample Description: Seaweed Extract Powder
Sampling Date: Percent Solids: 97.8
Date Received: August 27, 2015 13:24 Receipt Temperature: 23.1 deg C Ice: No
Amount Sampled: 50 g Analyst: Monique Bessette
Analysis Start: August 27, 2015 16:23 Analysis Stop Date: August 29, 2015 15:00
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Analysis Notes: Analysis results: <2 CFU/g; Undetected: Analyte was not detected in the sample analyzed;
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the method's standard reporting units
Sampling date/time not provided.

Client: Talun Eco-Products Inc.

Project: Seawinner

Method Detection Limit: 1 microorganism/ unit weight or volume analyzed

Practical Quantitation Limit: 1 microorganism/ unit weight or volume analyzed

Report Notes: None to report

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. The above results relate only the collected and referenced sample(s) and to their condition at the time of process. The analysis results are not indicative or representative of a process. Sampling and field data information was submitted by the client. The analysis and presented results in this report meet the requirements of The NELAP Institute (TNI), ISO 17025, and The State of Florida Department of Public Health's Laboratory Certification Program, as applicable unless otherwise noted.

Signature of Laboratory Director/Authorized Rep. _____



Date: September 10, 2015

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ACCREDITATION
BUREAU**
a division of A-S-B
ACCREDITED ISO/IEC 17025



DATA QUALIFIER CODES	
SYMBOL	MEANING
B	Results based on counts outside the acceptable range.
D	Measurement was made in the field.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	The sample matrix interfered with the ability to make any accurate determination.
J2	No Quality Control criteria exist for the component.
J3	The data are questionable because of improper laboratory or field protocols.
L	Off scale high. Actual value is known to be greater than value given.
N	Presumptive evidence for the presence of material. There is an indication that the analyte is present, but the confirmation requirement was not met.
O	Sampled, but analysis not performed.
Q	Sample held beyond the accepted holding time.
U	Indicates that the compound was analyzed for but not detected. The specified component was not detected. The reported value is the method detection limit.
V	Analyte was detected in both sample and associated method blank. Data may not be accurate.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies present (TNTC); the numeric value given represents the upper end of the value that can be determined based on the volume.
?	Data are rejected and should not be used. QC data for analyte did not meet acceptance criteria. Presence or absence of analyte could not be confirmed.
*	Not reported due to interference.
!	Data deviate from historically established concentration range.
#	BCS Lab specific qualifier. See laboratory analysis notes.

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