



Date: 10/19/2016

COMPANY INFORMATION

Company Name: Parker Hannifin Renewable Resources	
Phone: 614-279-7070	Web Site: www.parker.com/tfd
Address: 3885 Gateway Blvd	City: Columbus
State: Ohio	Zip Code: 43228

BUSINESS CONTACT

Name: Alison Allwes
Phone: 614-324-8250
Email: alison.allwes@parker.com
Address: 3885 Gateway Blvd
City: Columbus
State: Ohio
Zip Code: 43228

TECHNICAL CONTACT

Name: Robert Norris
Phone: 614-324-8250
Email: robert.norris@parker.com
Address: 3885 Gateway Blvd
City: Columbus
State: OH
Zip Code: 43228

BUSINESS HISTORY

How long have you been in business? 2+ years

Are you part of a larger company? Yes No

Did you exist as another company before this company was formed? Yes No

If so, what was that company's name?

Number of employees? 6

What is your business structure? Corporation

What types of insurance and or surety do you provide?

self-insured

References. Please provide customers or colleagues with whom we can discuss your business and performance.

Please include a separate list with company name, location, contact name and contact information.

Can be provided if necessary.

Describe your business service(s). *For example: consulting, development, engineering, equipment sales, finance, other.*

Clean Water/Nutrient management: Consulting, process and system manufacturing, system sales and marketing, product/system development, technical services.

Area or region of operation.

North America

Does your company hold any patents or the rights to any patents? *Please identify.*

Not in this industry

Do you manufacture equipment? **Yes** **No** *Please describe.*

We manufacture some equipment where we can and integrate from a variety of sources if necessary.

Do you integrate equipment manufactured by others? **Yes** **No**

If you integrate, please list the names of the companies you represent.

Yes, through a third party. Please contact Parker for more information.

How do you answer potential customer's question about financial strength of your company?

NA

Do you offer technical/service support? **Yes** **No** *If so, what methods?*

Yes. We provide consulting, laboratory testing, onsite pilot testing, and commissioning.

Do you offer design services? **Yes** **No** *Please describe.*

Do you offer financing? **Yes** **No** *If so, what terms?*

Yes, through a third party. Please contact Parker for more information.

Are you a full stop shop? *Design to construction to operate?* **Yes** **No** *Please describe.*

Do you have preferred partners? **Yes** **No**

If so, please list and provide contact information/identify partners by name.

Do you have any third-party verification/research that has been done on this technology? Yes No

If so, please describe.

Do you provide a performance guarantee? Yes No

If so, what are you guaranteeing? For example: up time, methane production, biogas production, parasitic load, throughput, O&M cost, percent recovery, other.

Possibly, subject to negotiation with system buyer. Performance guarantees are typically written around treatment volume (flux).

Are there any other aspects of your business that you feel should be included in this document?

INITIAL TECHNOLOGY OVERVIEW

This information is to guide in the development of a more specific and detailed Technology Information Request. Please answer the following questions for each Technology or Service Provided.

What is the name of the technology or service?

What unit process is the technology used in?

For example: initial collection/transfer manure storage, energy recovery, primary/coarse solids recovery, advanced suspended/fine solids recovery, drying, struvite production, nitrification denitrification, ammonia stripping, algae, vermi composting, membrane filtration, evaporation, other.

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How many systems have you installed on dairy farms or other livestock operations?

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Size of farm(s)?

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Location of farm(s)?

What's the smallest/largest farm for your system?

Input material description/characteristics:

For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.

Does the technology treat the full manure stream for a farm or a fraction of the stream?

Do you consider this a mature system or ongoing farm development?

Any weather constraints? **Yes** **No** *Please describe.*

Any bedding constraints? **Yes** **No** *Please describe.*

NA

Is this process scalable and to what extent (top and bottom limits)? **Yes** **No** *Please describe.*

Do you have a known scaling factor? **Yes** **No** *Please describe.*

Input and output of your unit/system – do you have a mass balance analysis? Yes No *Please describe.*

Do you consider this technology part of a larger system that you provide? Yes No *Please describe.*

Has your technology been accepted by the NRCS? Yes No *Please describe.*

Would you be willing to provide information for a technical review? Yes No

Would you be willing to respond to a Request for Quotation (RFQ) on a generic project for comparison of your technology against other technologies in the same unit process? Yes No

Are there any other facts about this technology that you feel should be included in this document?