



COMPANY I	NFORMA	TION				Date:		
Company N	Trident Processes LLC (formerly Manure Systems Inc.)							
Phone:	1-800-7	799-37	740		Web Site:	http://www.tridentprocesses.com/		
Address:	446 Ha	rrison	Street #8	1D	City:	Sumas		
State:	Washir	ngton,	USA		Zip Code:	98295		
BUSINESS C	ONTACT				TECHNICAL	CONTACT		
Name:	Kerry Doyle				Name:	Kerry Doyle		
Phone:	(604) 2	26-60	75		Phone:	(604) 226-6075		
Email:	Kerry.Doyle@tridentpro			ocesses.com	Email:	Kerry.Doyle@tridentprocesses.com		
Address:	2238 Q	ueen :	St, Unit 10)1	Address:	2238 Queen St, Unit 101		
City:	Abbots	ford			City:	Abbotsford		
State:	BC Canada				State:	BC Canada		
Zip Code:	V2T OB	7			Zip Code:	V2T 0B7		
BUSINESS H	IISTORY							
How long h	nave you	been	in busine	ss? 11 years				
Are you pa	rt of a la	rger c	ompany?	○ Yes ● No				
Did you exi				before this company v	vas formed?	Yes No		
Yes, KPD Consulting Ltd dba Manure Systems Inc.								
Number of employees?			0-10					
What is your business structure?			ucture?	Privately Held Company				
What types of insurance and or surety do you provide?								
General Liability, Error & Omissions								

References. Please provide customers or colleagues with w Please include a separate list with company name, location, contact	<u>.</u>
Mike McCloskey-Fair Oaks Farms Gil den Dulk-Prairies Edge Dairy Farms Jerry Keulen-Seabreeze Farm Ltd Steve Bos-Windy Ridge Farms Geoff Steinback-Midwestern Bio Ag Scott Rogers-Aqua Engineering	Glen Perry- Alpro Energy and Water Dr Aicardo Roa-Soilnet LLC
Describe your business service(s). For example: consulting, de	velopment, engineering, equipment sales, finance, other.
We provide state of the art, turnkey nutrient recovery syster industry	ns and manure management equipment for the livestock
Area or region of operation.	
Canada, USA, China, Australia	
Does your company hold any patents or the rights to any pa	atents? Please identify.
Licensed from Soilnet LLC- Patents (numerous) for polymer formulation. Licensed from Soilnet LLC- Patent Pending for "Separation of Bio Components from Manure" Licensed from Soilnet LLC- Patent Pending for "Struvite Formation Prevention"	Licensed from KPD Consulting Ltd Patent Pending on Solid Liquid Separation equipment
Do you manufacture equipment? Yes No Please	e describe.
All equipment is contract manufactured by various specialty guidelines & specifications	manufacturers that "custom design build" to strict Trident
Do you integrate equipment manufactured by others? If you integrate, please list the names of the companies you repres	Yes No ent.
TD Precision Steelworks Ltd. Lee's Contracting and Fabrication Inc. Leap Technologies Inc. Benenv Co. Ltd. Soilnet LLC	

How do you answer potential customer's question about financial strength of your company?					
Capable of bonding projects up to \$ 200 million in-house.					
Do you offer technical/service support? Yes No	If so, what methods?				
Engineering and Design Turnkey Construction Systems Management and Operation Laboratory and Analytical Services Remote Monitoring and Diagnostic Polymer Supply Nutrient Cake Acquisition/Purchase	Technical support delivered via online monitoring with remote system management & operation. Onsite service provided via local, regional and national strategic partners.				
Do you offer design services? Yes No Please des	cribe.				
Do you offer financing? • Yes • No If so, what terms?					
Yes, Leasing - Client Driven					
Are you a full stop shop? Design to construction to operate?	Yes				
Yes, Engineering, Procurement, Construction (EPC) Operation and Maintenance (O&M)					
Do you have preferred partners? • Yes • No If so, please list and provide contact information/identify partners	hy name				
ij 50, piedoc not and provide contact injornation/lacinty/ partners					

Do you have any third-party verification/research that has been done on this technology? Yes No No If so, please describe.
Yes, University of Wisconsin, Madison Accelerated Renewable Energy Consortium: Production of Granulated Bio-nutrients from Dairy Manure Aicardo Roa-Espinosa, Damodhara Rao Mailapalli, John L Markley, RC Ludke Biological Systems Engineering Department, University of Wisconsin, Madison, WI-53706, Biochemistry Department, University of Wisconsin, Madison, WI-53706,
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.
Yes, Up-time, Throughput, Percent recovery efficiencies, O&M costs
Are there any other aspects of your business that you feel should be included in this document?
Recipient of the 2014 AbbotsfordEnvironmental Leadership award. Trident Processes is one of the leading providers of wastewater treatment and nutrient recovery solutions. We develop custom solutions and turnkey systems for wastewater and sludge treatment as well as biosolids dewatering and focus in particular on the municipal, industrial and agriculture sector.

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.*

Please answer the following questions for each Technology or Service Provided.					
What is the name of the technology or service?					
Trident Nutrient Recovery System					
What unit process is the technology used in? For example: initial collection/transfer manure storage, energy rec solids recovery, drying, struvite production, nitrification denitrification filtration, evaporation, other.					
Primary/coarse solids recovery for fiber reuse for Bedding material Advanced suspended/fine solids recovery Dewatering & Drying of nutrient cake					
How many systems have you installed on dairy farms or other	ner livestock operations?				
Seabreeze Dairy Farm, Delta, BC Fair Oaks Farms, Fair Oaks, IN Maple Leaf Dairy Cleveland WI					
Size of farm(s)?					
Seabreeze (250 cows) Fair Oaks (14,500) Maple Leaf Dairy (4,000)					
Location of farm(s)?					
BC, Indiana & Wisconsin					

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

250 cows

Input material description/characteristics: For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.
Raw Manure, Digestate with & without off-farm feedstocks
Does the technology treat the full manure stream for a farm or a fraction of the stream?
Full Stream
Do you consider this a mature system or ongoing farm development?
Mature Technology with ongoing continuous improvement
Any weather constraints? Yes No Please describe.
Must be located indoors in cold climates
Any bedding constraints? Yes No Please describe.
No bedding material constraints
Is this process scalable and to what extent (top and bottom limits)? Yes No Please describe.
250 cows – no upper limit
Do you have a known scaling factor? Yes No Please describe.
TBD

Input and output of your unit/system – do you have a mass balance analysis? Yes No Please describe.						
Mass balance analysis provided with each system						
Do you consider this technology part of a larger system that you provide? Yes No Please describe.						
Currently sold as one integrated system, some components are optional.						
Has your technology been accepted by the NRCS? Yes No Please describe.						
Currently Under Review						
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? No						
Are there any other facts about this technology that you feel should be included in this document?						
Under ongoing development for 2nd stage effluent clarification / nitrogen removal system. Currently prototyping an on-farm scale granule production system for value adding the produced nutrient cake.						