Bacta-Pur®

The Natural Solution when only the best will do

Questionnaire

Waste Water Treatment Plant Characterization and Performance © 2009

ECOPROBIOTICS®, of the Bacta-Pur® System, are beneficial communities of natural bacteria, which have been on earth for millions of years and have been selected for their synergistic ability to biodegrade pollutants and to improve water quality. ECOPROBIOTICS® increase biodiversity. Just as people take probiotic yogurt for its ability to assure the presence of the optimal community for digestion and immunity, ECOPROBIOTICS® improve ecosystem health. EVERY PRODUCTION of Bacta-Pur® products is analyzed and cleared for shipment ONLY after passing all performance tests and being CERTIFIED PATHOGEN FREE using techniques from the food industry. ECOPROBIOTICS® are purely natural and beneficial. They NEVER contain added chemicals such as surfactants, emulsifiers or enzymes…, nor do they contain genetically modified (GMO) or deliberately mutated organisms. ECOPROBIOTICS® are safe and beneficial. Disease causing organisms are never used, as others do or permit.

The use of the Bacta-Pur® System is founded on solid and efficient technical support. The Bacta-Pur® System is comprised of various tools (beneficial cultures ECOPROBIOTICS®, growth enhancers and equipment), which we use as part of a process to optimize the efficiency of wastewater treatment. Thorough understanding, of the current operational realities of each potential site, is essential prior to beginning. This is particularly true for industrial sites where physical, chemical and biological realities must be defined to permit treatment optimization.

Once completed, this questionnaire will provide us an overview of the plant, treatment, problem areas and operational goals. The information is also used to assess whether or not biological manipulations offer the potential for improvement. This questionnaire should be filled out as completely as possible; just leave blanks if information is lacking.

Customer:			
Address:			
City:		State/ Prov.	
		Zip or	
Country:		Postal Code:	
Telephone:		Fax:	
Field of Activity:			
Data certified by			
Name (print):		Title:	
Signature:		Date:	

Bacta-Pur / IET-Aquaresearch Ltd.
P.O. Box 689, Derby Line, VT 05830 USA

IET-Aquaresearch Ltd.
P.O. Box 2680, North Hatley, QC, J0B 2C0 Canada

Phone: (877) bactapur [222-8278], (819) 842-2494, Fax: (819) 842-2414
Email: info@bactapur.com website: www.bactapur.com

Characterization of Raw Waste Water:

Flow Rates (check: m^3/d or MGD):

Average: _____
Minimum: _____
Maximum: _____
Design: _____

Physico-Chemical Parameters of Wastewater:

	Average (mg/L)	Minimum (mg/L)	Maximum (mg/L)
TOC			
BOD			
COD			
SS			
VSS			
NH_3-N			
NO_2-N			
NO_3-N			
o-PO_4			
pH			
Temp. (°C or F)			
TKN			

Nutrients / Flocculent added:

Product	Quantity	Frequency	Location

System Layout:

Primary Treatment:

Type	Location	Capacity

Primary Clarifier:

no	Volume	Surface	Capacity
1			
2			
3			
4			

Secondary Treatment:

Type	Volume	Depth	Capacity

Secondary Clarifier:

no	Volume	Surface	Capacity
1			
2			
3			
4			

Sludge blanket (clarifier or lagoon):

no	Average	Maximum	Goal
1			
2			
3			
4			

Tertiary Treatment:

Type	Location	Capacity

Sludge Treatment:

Type	Volume	Capacity

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System Performance:

	Influent (mg/L)	Prim.Treat (mg/L)	Prim. Clar. (mg/L)
TOC			
BOD			
COD			
SS			
VSS			
NH_3-N			
NO_2-N			
NO_3-N			
o-PO_4			
pH			
TKN			
	Sec. Treat. (mg/L)	Sec. Clar. (mg/L)	Effluent (mg/L)
TOC			
BOD			
COD			
SS			
VSS			
NH_3-N			
NO_2-N			
NO_3-N			
o-PO_4			
pH			
TKN			

Dissolved Oxygen Profile:

	Average (mg/L)	Minimum (mg/L)	Maximum (mg/L)
Sec. Treat. 1			
Head			
Middle			
Effluent			
Sec. Treat. 2			
Head			
Middle			
Effluent			
Sec. Treat. 3			
Head			
Middle			
Effluent			

Temperature Profile:

	Average (mg/L)	Minimum (mg/L)	Maximum (mg/L)
Sec. Treat. 1			
Winter			
Summer			
Sec. Treat. 2			
Winter			
Summer			
Sec. Treat. 3			
Winter			
Summer			

Quality of sludge in secondary clarifier:

no	SS (mg/L)	VSS (mg/L)	RAS (m^3/d)	WAS (m^3/d)
1				
2				
3				
4				
no	Age	SVI		
1				
2				
3				
4				

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Energy Consumption Efficiency

Aeration System:

	Diffuser*	Depth
Sec. Treat. 1		
Sec. Treat. 2		
Sec. Treat. 3		

- Size of bubbles generated:

no	Location	HP	SCFM	Hr/day
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Mixing System:

no	Location	HP	Amp.	Hr/day
1				
2				
3				
4				
5				

Description of problem(s) to solve or goals (your wish list):

Process and instrumentation diagram of wastewater treatment plant— show all treatment basins & water flow:

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