

Biological Waste Water Treatment Plant Attached Growth Characterisation and Performance © 2009

Bacta-Pur®, ECOPROBIOTICS® & BACTIVATOR® are trademarks of Aquaresearch Canada Ltd used under license.

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 system is comprised of various tools (ECOPROBIOTICS®, growth enhancers and equipment), that we use as part of a process to optimise the efficiency of wastewater treatment. Through 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 optimisation.

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: _____



Characterisation of Influent:

	Actual	Design
Average flow (MGD):		
Peak hourly flow (MGD):		
Average BOD Load (lb BOD/day)		
Hourly Peak Organic Load (lb BOD/day)		

Septage Received: Yes / No

if YES, _____

Daily Average Volume (units) _____

Total Yearly Volume (units) _____

Wastewater Composition:

	%	Describe Industrial and other sources:
Domestic		
Industrial		
Other		

Physico-Chemical Parameters of Influent:

Parameter	Average (mg/L)	Minimum (mg/L)	Maximum (mg/L)	Parameter	Average (mg/L)	Minimum (mg/L)	Maximum (mg/L)
TOC (mg/L)				NO ₃ -N			
BOD				TKN-N			
COD				o-PO ₄			
SS				P total			
VSS				pH			
NH ₃ -N				Temp.(C or F)			
NO ₂ -N				Alkalinity			



Biofilter Design/Operational Data

Media type (stone, plastic, etc.)	_____
Surface Area of filter (ft ²) or Diameter (ft)	_____
Depth of filter (ft)	_____
Volume of filter (ft ³)	_____
Number of filters	_____
Type of loading rate (standard, high, etc.)	_____
Hydraulic loading (Gal/Day/Ft ²)	_____
Organic loading (lbs. BOD/day/1000ft ³)	_____
Percent removal (%)	_____
Recirculation ratio	_____
Primary treatment (YES / NO)	_____

System Layout

Process and instrumentation diagram:



System Performance and Operation

Parameter	Primary clarifier		Biofilter		Secondary clarifier		% Removal	Permit values
	Influent (mg/L)	Effluent (mg/L)	Influent (mg/L)	Effluent (mg/L)	Influent (mg/L)	Effluent (mg/L)		Final Effluent (mg/L)
TOC								
BOD								
COD								
SS								
VSS								
NH ₃ -N								
NO ₂ -N								
NO ₃ -N								
TKN								
o-PO ₄								
P total								
pH								
OD								
Temp.								

* If any tertiary treatment applied please provide the data.

Nutrients / Flocculants added

Product	Quantity (units)	Frequency	Location

Description of problem(s) to solve or goals (your wish list), provide as much information as possible:

