

Successful Cases with Bio-Organic Catalyst in the Country of Colombia

Sanitary Landfill - NONTOX

Organic Load Decrease - Continuous Dosage BOC.

AFLUENTES 2012					
PARÁMETRO	C	ONCENTRACIÓN (mg/L)	CARGA (Kg/día)		
DQO		4229		766,21	
DBO _s		3041		550,97	
GyA		14		2,54	
SST		630		114,1	
FENOLES		0.79			

AFLUENTES 201 CONCENTRACIÓN

(mg/L)

4756

2850

39

245

0.56

PARÁMETRO

DQO

DBO5

GyA

SST

FENOLES

EFLUENTE 2012						
PARÁMETRO	CONCENTRACIÓN (mg/L)	(
DQO	1850					
DBO5	1145					
GyA	14					
SST	127					
FENOLES	0.28					

.5	
CARGA (Kg/día)	
1627.24	
975.11	
13.34	
83.83	

EFLUENTE 2015					
PARÁMETRO	CONCENTRACIÓN (mg/L)	CARGA (Kg/día)			
DQO	61	6.18			
DBO5	15	1.52			
GyA	22	2.23			
SST	13	1.32			
FENOLES	<0.07				

CARGA (Kg/día) 258,7 160,11 1,96 17,76



Odor Control - Continuous Dosage BOC Significant Drop In Odor From 3000 To 35 Units (Uoe/m3)







Dairy - Eco-Cat

Organic Load Decrease - Continuous Dosage BOC. Monitoring of process variables.

PROMEDIOS POR MES	ENTRADA GEM		SALIDA GEM		SALIDA PTAR		% REM.
	OD (P.P.M.)	TBDAD	OD (P.P.M.)	TBDAD	OD (P.P.M.)	TBDAD	70
PROM. NOV SIN BOC	0,48	1442,64	0,59	38,84	0,99	107,51	93%
PROM. DIC SIN BOC	0,44	1559,22	0,58	42,07	0,84	124,44	92%
PROM. DIC CON BOC	0,92	1926,60	1,07	53,75	0,69	41,50	98%
PROM. ENE 12/2012 CON BOC	1,37	1416,85	1,43	24,54	1,15	67,60	95%

No Catalyst



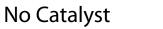
12 Days with Catalyst

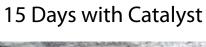


Liquefied Petroleum Gas - NONTOX

Parámetro	Datos iniciales	Datos Finales	Concentración BOC	Remoción
FENOLES	0,66 mg/L	<0,04 mg/L		94.0%
HIDROCARBUROS	1,6 mg/L	<0,01 mg/L	≈ 76 ppm	99,4%
TEMPERATURA		22 ° C	(10L/132m ³)	
рН	5 - 9	8,39		

Grease Trap - Eco-Cat









No Catalyst

DQO = 591

15 Days with Catalyst



Decrease in COD

Production of Biogas Dosing NONTOX in an Anaerobic Lagoon

Before

1 Month later with 'Catalyst



Odor Control in Composting – Ecosystem Plus



Before ammonia concentration

15 Days later with Catalyst

Cleaning on Floors Contaminated with Hydrocarbons - NONTOX

NONTOX solution prepared at 5%



Treating A Lagoon in a Corn Starch Industry – Ecosystem PlusEcosystem Plus Spray Dosing at 2% Concentration - Results in Two Months



