

Bioassays of

Anheuser-Busch, Inc Old Sod Farm

Jacksonville, Duval County, Florida

NPDES #FL0041530

Sampled 7/29/02

April 2003

Biology Section

Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

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Biology Section
Bureau of Laboratories
April 2003

Anheuser-Busch, Incorporated, Old Sod Farm (Main Street), 11650 North Main Street, Jacksonville, Duval County, Florida, NPDES #FL0041530, tests performed on 30 July to 1 August 2002.

Introduction

The Anheuser-Busch Old Sod Farm is a 350-acre land application system farm having a design flow to Outfall 001 of 2.6 MGD and an average daily flow of 1.53 MGD (August 2001 – July 2002). Brewery liquor is pretreated by anaerobic digestion prior to being applied to the land as a nutrient enrichment for growing turf and crops. A portion of the land application site is under-drained, with discharge to the South Borrow Pit or to the North Borrow Pit, which discharges to the South Borrow Pit. Additionally, nanofiltration concentrate is discharged to the South Borrow Pit at a maximum design flow of 1.25 MGD. South Borrow Pit, Outfall 001, and stormwater runoff discharge into the Class III waters of Little Cedar Creek, and ultimately into the Class III marine waters of the Broward River (facility information provided by James M. Lucas, FDEP, Jacksonville).

Methods

Samples were collected by Pat O'Connor following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm

The toxicity tests discussed in this report were performed following internal DEP SOP's TA07-01 and TA07-02. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Toxicity Test Results

Ceriodaphnia dubia 48-hr acute screen – Not Toxic
Cyprinella leedsi 48-hr acute screen – Not Toxic

See Table 1 for bioassay bench sheets.

Chemistry Results

Total residual chlorine was not detected in the bioassay sample in the laboratory.
Total ammonia and unionized ammonia were detected in the laboratory bioassay sample at concentrations of 0.348 mg/L and 0.009 mg/L, respectively.

See Table 2 for chemicals detected in the analytical chemistry samples.
See Table 3 for a complete list of chemical analyses performed.

Conclusion

The sample of effluent collected from this facility on July 29, 2002, did not show acute toxicity to either test species during the 48-hour bioassay tests.

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from the Anheuser-Busch, Incorporated Old Sod Farm (Main Street), 11650 North Main Street, Jacksonville, Duval County, Florida, NPDES# FL0041530, performed from 30 July to 1 August 2002.

Facility:	**Anheuser-Busch, Inc. Old Sod Farm**		**NPDES #**	**FL0041530**	Facility Type: **Farm**	**Analysts:**	Marshall Faircloth
Location:	11650 North Main St., Jacksonville		Contact/District:	O'Connor/NE			Joshua Ayres
County:	Duval		Test type:	static acute screen			Gary Hardie
Sample Collection Date:	7/29/2002	Time: 1155	# tests:	2	Receiving Water: Little Cedar Creek		
Test Beginning Date:	7/30/2002	Time: 1430	Chlorination Type:	non-chlorinated	Class III Fresh Water		
Test Ending Date:	8/1/2002	Time: 1530			**Page 1 of 1**	**Reviewer:**	David Whiting

Organism: ***Ceriodaphnia dubia*** Life stage: <24 hours

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			Conductivity Uncorrected µmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/20	5	5	5	8.5	-	8.1	23.6	-	25.2	7.7	-	6.9	170	190
Control B	0/20	5	5	5	-	-	8.1	-	-	25.1	-	-	6.9	-	195
Control C	0/20	5	5	5	-	-	8.1	-	-	25.0	-	-	7.2	-	200
Control D	0/20	5	5	5	-	-	8.2	-	-	24.6	-	-	7.2	-	220
100% A	20/0	5	5	5	7.6	-	8.4	24.1	-	24.9	7.9	-	7.4	1470	1595
100% B	20/0	5	5	5	-	-	8.4	-	-	25.2	-	-	7.4	-	1655
100% C	20/0	5	5	5	-	-	8.4	-	-	25.0	-	-	7.4	-	1715
100% D	20/0	5	5	5	-	-	8.4	-	-	24.7	-	-	7.4	-	1730

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 23.0-25.0°C.
Incubator #3 temperature range for the test period was 25.0-25.5°C.

Organism: ***Cyprinella leedsi*** Life stage: 12 days

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen			Conductivity Uncorrected µmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/500	5	5	5	7.9	8.5	8.5	23.4	24.6	24.7	7.6	7.4	7.3	250	275
Control B	0/500	5	5	5	7.9	8.4	8.5	23.6	24.3	24.7	7.7	7.4	7.5	260	270
Control C	0/500	5	5	5	7.9	8.4	8.5	23.6	23.9	24.8	7.8	7.6	7.6	255	290
Control D	0/500	5	5	5	7.9	8.3	8.5	23.6	23.8	24.9	7.7	7.7	7.5	255	290
100% A	500/0	5	5	5	7.6	8.0	8.2	23.6	23.6	24.8	6.2	7.2	7.1	1420	1590
100% B	500/0	5	5	5	7.6	8.0	8.2	23.6	23.9	24.9	6.1	7.3	7.0	1475	1600
100 % C	500/0	5	5	5	7.6	8.0	8.2	23.6	23.9	24.9	6.0	7.2	6.7	1480	1595
100% D	500/0	5	5	5	7.6	8.1	8.2	23.5	24.3	24.8	6.0	7.2	6.7	1470	1616

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 23.0-25.0°C.
Incubator #3 temperature range for the test period was 25.0-25.5°C.

LIMS	
Job number:	TLH-2002-07-30-45
sample number:	610442

Data Transcription Verification	
date:	1/9/2003
by:	Christa Pierini
	James Daniels

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water (fish):	<0.017	<0.017
Control water (water flea):	<0.017	<0.017
100% Sample:	0.348	0.009

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water (fish):	140	133
Control water (water flea):	80	85
100% Sample:	145	703

Table 2. Results of chemical analyses on the effluent from Anheuser-Busch, Incorporated Old Sod Farm (Main Street) sampled on July 29, 2002

Metals

Aluminum	24	ug/L	
Arsenic	4.2	ug/L	I
Calcium	148	mg/L	
Chromium	2.3	ug/L	I
Copper	1.1	ug/L	I
Iron	49	ug/L	
Lead	0.37	ug/L	I
Magnesium	82.2	mg/L	
Nickel	1.8	ug/L	I
Selenium	1.3	ug/L	IJ

Pesticides and Herbicides

Atrazine	0.071	ug/L	I

Nutrients

Ammonia-N	0.59	mg N/L
Nitrates and Nitrites	0.56	mg N/L
Total Kjeldahl Nitrogen	3.2	mg N/L
Ortho-Phosphate	0.18	mg P/L
Total Phosphorous	0.39	mg P/L

Base, Neutral, & Acid Extractable Organics

None detected

[J] The reported value is an estimated value.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 3. Chemical Analysis performed on the effluent from Anheuser-Busch, Incorporated Old Sod Farm (Main Street), sampled on July 29, 2002.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/29/2002 11:55	EFFLUENT	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	76
7/29/2002 11:55	EFFLUENT	BNA-Water	1-Naphthylamine	9.5	ug/L	U	9.5	38
7/29/2002 11:55	EFFLUENT	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	2,4,5-Trichlorophenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
7/29/2002 11:55	EFFLUENT	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
7/29/2002 11:55	EFFLUENT	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2,6-Dichlorophenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Acetylaminofluorene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Methylnaphthalene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Naphthylamine	9.5	ug/L	U	9.5	38
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Nitroaniline	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	2-Picoline	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
7/29/2002 11:55	EFFLUENT	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	U	19	76
7/29/2002 11:55	EFFLUENT	BNA-Water	3-Methylcholanthrene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	3-Nitroaniline	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7

7/29/2002 11:55	EFFLUENT	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	4-Chloroaniline	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	4-Nitroaniline	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
7/29/2002 11:55	EFFLUENT	BNA-Water	5-Nitro-o-toluidine	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Acetophenone	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	Aniline	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Benzidine	95	ug/L	U	95	380
7/29/2002 11:55	EFFLUENT	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Benzyl alcohol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
7/29/2002 11:55	EFFLUENT	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
7/29/2002 11:55	EFFLUENT	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
7/29/2002 11:55	EFFLUENT	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Dibenzofuran	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190

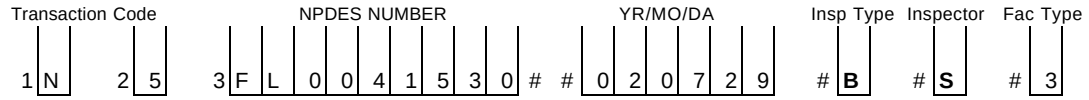
7/29/2002 11:55	EFFLUENT	BNA-Water	Dimethylaminoazobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	Ethyl methanesulfonate	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Isosafrole	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	Methyl methanesulfonate	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosodi-n-butylamine	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosodiethylamine	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosomorpholine	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosopiperidine	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	76
7/29/2002 11:55	EFFLUENT	BNA-Water	Pentachlorobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Pentachloroethane	48	ug/L	U	48	190

7/29/2002 11:55	EFFLUENT	BNA-Water	Pentachloronitrobenzene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
7/29/2002 11:55	EFFLUENT	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
7/29/2002 11:55	EFFLUENT	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
7/29/2002 11:55	EFFLUENT	BNA-Water	Safrole	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
7/29/2002 11:55	EFFLUENT	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.6
7/29/2002 11:55	EFFLUENT	BNA-Water	o-Toluidine	0.95	ug/L	U	0.95	3.8
7/29/2002 11:55	EFFLUENT	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
7/29/2002 11:55	EFFLUENT	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
7/29/2002 11:55	EFFLUENT	GC-Water	Atrazine	0.071	ug/L	I	0.048	0.192
7/29/2002 11:55	EFFLUENT	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
7/29/2002 11:55	EFFLUENT	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
7/29/2002 11:55	EFFLUENT	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
7/29/2002 11:55	EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
7/29/2002 11:55	EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.384
7/29/2002 11:55	EFFLUENT	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
7/29/2002 11:55	EFFLUENT	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
7/29/2002 11:55	EFFLUENT	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.384
7/29/2002 11:55	EFFLUENT	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
7/29/2002 11:55	EFFLUENT	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.384
7/29/2002 11:55	EFFLUENT	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.384
7/29/2002 11:55	EFFLUENT	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
7/29/2002 11:55	EFFLUENT	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
7/29/2002 11:55	EFFLUENT	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
7/29/2002 11:55	EFFLUENT	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.384
7/29/2002 11:55	EFFLUENT	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
7/29/2002 11:55	EFFLUENT	GC-Water	Naled	0.77	ug/L	U	0.77	3.08
7/29/2002 11:55	EFFLUENT	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.384
7/29/2002 11:55	EFFLUENT	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56

7/29/2002 11:55	EFFLUENT	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.384
7/29/2002 11:55	EFFLUENT	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
7/29/2002 11:55	EFFLUENT	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
7/29/2002 11:55	EFFLUENT	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
7/29/2002 11:55	EFFLUENT	Metals-Water	Aluminum	24	ug/L		5	20
7/29/2002 11:55	EFFLUENT	Metals-Water	Arsenic	4.2	ug/L	I	3	12
7/29/2002 11:55	EFFLUENT	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
7/29/2002 11:55	EFFLUENT	Metals-Water	Calcium	148	mg/L		0.02	0.08
7/29/2002 11:55	EFFLUENT	Metals-Water	Chromium	2.3	ug/L	I	2	8
7/29/2002 11:55	EFFLUENT	Metals-Water	Copper	1.1	ug/L	I	0.5	2
7/29/2002 11:55	EFFLUENT	Metals-Water	Iron	49	ug/L		7	28
7/29/2002 11:55	EFFLUENT	Metals-Water	Lead	0.37	ug/L	I	0.1	0.4
7/29/2002 11:55	EFFLUENT	Metals-Water	Magnesium	82.2	mg/L		0.01	0.04
7/29/2002 11:55	EFFLUENT	Metals-Water	Nickel	1.8	ug/L	I	1.5	6
7/29/2002 11:55	EFFLUENT	Metals-Water	Selenium	1.3	ug/L	IJ	1	4
7/29/2002 11:55	EFFLUENT	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
7/29/2002 11:55	EFFLUENT	Metals-Water	Zinc	8.8	ug/L	U	2	8
7/29/2002 11:55	EFFLUENT	Nutrients-Liquid	Ammonia-N	0.59	mg N/L		0.02	0.04
7/29/2002 11:55	EFFLUENT	Nutrients-Liquid	NO2NO3-N	0.56	mg N/L		0.04	0.1
7/29/2002 11:55	EFFLUENT	Nutrients-Liquid	N_KJEL_TOT	3.2	mg N/L		0.06	0.2
7/29/2002 11:55	EFFLUENT	Nutrients-Liquid	O-Phosphate-P	0.18	mg P/L		0.016	0.04
7/29/2002 11:55	EFFLUENT	Nutrients-Liquid	Total-P	0.39	mg P/L		0.015	0.04

The Bioassay of Anheuser-Busch, Incorporated Old Sod Farm (Main Street) effluent sampled on July 29, 2002, NPDES #FL0041530.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)



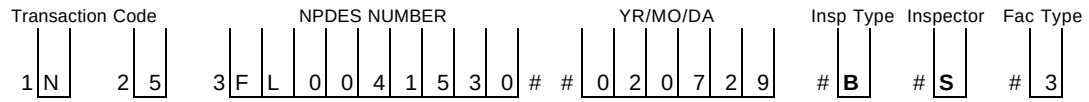
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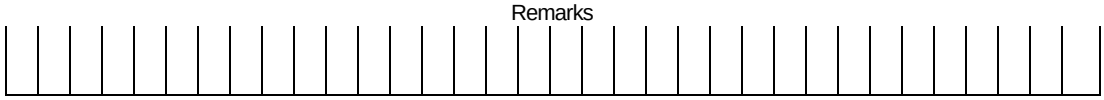
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The Priority Pollutants Analysis for Bioassay of Anheuser-Busch, Incorporated Old Sod Farm (Main Street) effluent sampled on July 29, 2002, NPDES #FL0041530.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)



Remarks



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