



MINISTERIO DE ECONOMIA Y OBRAS Y SERVICIOS PUBLICOS
SECRETARIA DE OBRAS PUBLICAS Y COMUNICACIONES

CONSEJO FEDERAL DE AGUA POTABLE Y SANEAMIENTO

**NORMAS DE ESTUDIO
CRITERIOS DE DISEÑO
Y PRESENTACION DE PROYECTOS
DE DESAGÜES CLOCALES
PARA LOCALIDADES DE HASTA 30.000 HABITANTES**

**TRABAJOS DE CAMPO
EVALUACION DE LAGUNAS**

Volumen II

1993

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ANEXO

b) Datos del sistema evaluado

$Co = 96 \text{ mg/l}$
 $No' = 1,5 * 10^6 \text{ NMP/100 ml}$
 $L = 87,3 \text{ m}$
 $w = 78,3 \text{ m}$
 $z = 1,1 \text{ m}$
 $T = 18^\circ\text{C}$
 $t_{\text{teórico}} = 27,8 \text{ días}$

c) Hipótesis de cálculo

Para la estimación de la eficiencia esperable de la laguna evaluada se adoptaron valores informados por la bibliografía para los siguientes parámetros:

PARAMETRO	VALOR ADOPTADO	REFERENCIA
K	$0,472 \text{ días}^{-1}$	Chiang-Gloyna, Ref. I
Kb	$0,644 \text{ días}^{-1}$	Wright, Ref. I
FCH	0,3	Sáenz Forero, Ref. II

d) Valores calculados para la salida de la laguna.

Los valores de DBO_5 soluble y bacterias coliformes fecales correspondientes al efluente de la laguna se calcularon utilizando los gráficos correspondientes al modelo aplicado (ver Ref. I).

Los parámetros requeridos para la entrada a estos gráficos son: $K * t$, $Kb * t$ y d .

Los resultados obtenidos fueron:

$$K * t = 3,94$$

$$Kb * t = 5,37$$

$$d = 1,1$$

$$C = 13 \text{ mg/l}$$

$$N' = 1,35 * 10^5 \text{ NMP/100 ml}$$

REFERENCIAS

- (I) YAÑEZ F. - Manual de Métodos Experimentales: Evaluación de Lagunas de Estabilización. CEPIS-OPS.
- (II) SAENZ FORERO R. - Predicción de la Calidad del Efluente en Lagunas de Estabilización.

TABLA Nro. 1 - SISTEMA "J. M. COBO"

Caudales

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
30/3/92	1	8.0	5.76
	1	12.0	5.75
	1	14.0	7.14
	1	18.0	7.14
31/3/92	2	8.0	7.14
	2	12.0	7.00
	2	14.0	7.80
	2	18.0	7.14
1/4/92	3	8.0	8.70
	3	12.0	8.70
	3	14.0	9.50
	3	18.0	9.40
2/4/92	4	8.0	10.44
	4	12.0	9.00
	4	14.0	8.70
	4	18.0	9.00
3/4/92	5	8.0	12.00
	5	12.0	14.53
	6		
	7		
	8		
7/4/92	9	8.0	10.00
	9	12.0	9.00
8/4/92	10	8.0	9.00
	10	12.0	10.44
	10	14.0	11.00
	10	18.0	8.44
9/4/92	11	8.0	9.00
	11	12.0	10.44
	11	14.0	11.00
	11	18.0	8.00
10/4/92	12	8.0	9.00
	12	12.0	8.70
	12	14.0	10.44
	12	18.0	10.44
	13		
	14		
13/4/92	15	8.0	5.76
	15	12.0	7.14
	15	14.0	8.44
14/4/92	16	8.0	6.50
	16	12.0	7.44
	16	14.0	7.14
	16	18.0	7.50

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
15/4/92	17	8.0	9.00
	17	12.0	5.44
	17	14.0	7.50
	17	18.0	7.14
16/4/92	18	8.0	5.76
	18	12.0	
	18	14.0	6.00
	18	18.0	7.50
	19		
	20		
	21		
	22		
21/4/92	23	8.0	9.00
	23	12.0	10.44
	23	14.0	14.53
	23	18.0	12.00
	24		
23/4/92	25	8.0	14.53
	25	12.0	14.53
	25	14.0	16.00
	25	18.0	11.00
24/4/92	26	8.0	14.50
	26	12.0	10.40
	26	14.0	14.50
	26	18.0	14.60
	27		
	28		
27/4/92	29	9.0	12.00
	29	12.0	14.53
	29	14.0	15.00
	29	18.0	14.53
28/4/92	30	8.0	11.00
	30	12.0	10.44
	30	14.0	14.53
	30	18.0	14.53
	31		
30/4/92	32	8.0	12.00
	32	12.0	14.53
	32	14.0	12.00
	32	18.0	12.00

TABLA Nro. 1 - SISTEMA "J. M. COBO"
Caudales (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
1/5/92	33		
2/5/92	34		
3/5/92	35		
4/5/92	36	8.0	13.00
	36	12.0	14.50
	36	14.0	15.00
	36	18.0	16.00
5/5/92	37	8.0	11.00
	37	12.0	10.44
	37	14.0	12.00
	37	18.0	11.00
6/5/92	38	8.0	13.00
	38	12.0	14.53
	38	14.0	16.00
	38	18.0	14.50
7/5/92	39	9.0	15.00
	39	12.0	14.50
8/5/92	40	8.0	15.00
	40	12.0	14.50
	40	14.0	14.50
	40	18.0	15.00
9/5/92	41		
10/5/92	42		
11/5/92	43		
12/5/92	44	8.0	16.00
	44	12.0	16.00
	44	14.0	15.00
	44	18.0	16.00
13/5/92	45	9.0	13.00
	45	13.0	10.00
	45	15.0	5.00
	45	19.0	8.40
14/5/92	46	8.0	10.40
	46	12.0	11.00
	46	14.0	11.00
	46	19.0	11.00

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
15/5/92	47	8.3	11.00
	47	12.3	13.00
	47	14.0	11.00
	47	18.3	11.00
16/5/92	48		
17/5/92	49		
18/5/92	50	9.3	7.10
	50	12.0	8.00
	50	14.0	8.70
	50	18.0	8.00
19/5/92	51	9.3	13.00
	51	12.3	17.00
	51	14.3	18.00
	51	18.0	14.50
20/5/92	52	9.3	14.50
	52	12.3	14.50
	52	14.0	16.00
	52	18.0	15.00
21/5/92	53	9.0	10.00
	53	12.0	14.50
	53	14.3	14.50
	53	17.3	16.00
	54		
	55		
	56		
	57		
26/5/92	58	8.3	5.00
	58	12.0	6.00
	58	14.0	7.40
	58	17.3	7.00
27/5/92	59	8.3	6.00
	59	12.3	6.00
	59	14.0	7.10
	59	18.0	7.00
	60		
	61		
	62		
	63		

TABLA Nro. 1 - SISTEMA "J. M. COBO"

Caudales (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
1/6/92	64	8.3	11.00
	64	12.0	12.00
	64	14.0	12.00
	64	17.3	11.00
2/6/92	65	8.3	12.00
	65	12.0	13.00
	65	14.3	11.00
	65	18.0	11.00
3/6/92	66	9.0	13.00
	66	12.0	13.00
	66	14.3	13.00
	66	17.0	14.00
4/6/92	67	8.3	14.50
	67	11.3	16.00
	67	14.0	19.00
	67	17.0	17.00
5/6/92	68	9.0	19.00
	68	12.0	19.00
	68	14.0	19.00
	68	18.0	20.00
6/6/92	69		
7/6/92	70		
8/6/92	71		
9/6/92	72	9.0	26.00
	72	12.0	26.00
	72	14.3	28.00
	72	18.0	28.00
10/6/92	73	9.0	14.00
11/6/92	74		
12/6/92	75	9.0	10.40
	75	12.0	11.00
	75	14.0	12.00
	75	18.0	12.00
13/6/92	76		
14/6/92	77		

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
15/6/92	78		
16/6/92	79		
17/6/92	80		
18/6/92	81	9.3	15.00
	81	12.0	16.00
	81	14.0	16.00
	81	17.3	16.00
19/6/92	82		
20/6/92	83		
21/6/92	84		
22/6/92	85	9.0	27.00
	85	12.0	27.00
	85	14.0	27.00
	85	18.0	27.00
23/6/92	86	9.0	26.00
	86	12.0	27.00
	86	14.0	27.00
	86	17.3	27.00
24/6/92	87		
25/6/92	88	9.0	10.40
	88	12.0	17.00
	88	14.0	10.40
	88	17.0	11.00
26/6/92	89	9.0	10.40
	89	12.0	10.40
	89	14.0	11.00
	89	17.3	11.00
27/6/92	90		
28/6/92	91		
29/6/92	92	9.0	10.40
	92	12.0	10.40
	92	14.0	11.00
	92	18.0	12.00
30/6/92	93	9.3	7.00
	93	12.0	8.40
	93	14.3	8.40
	93	17.0	10.00

TABLA Nro. 1 - SISTEMA "J. M. COBO"

Caudales

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
1/7/92	94		
2/7/92	95		
3/7/92	96		
4/7/92	97		
5/7/92	98		
6/7/92	99		
7/7/92	100		
8/7/92	101		
9/7/92	102		
10/7/92	103	8.3	10.40
	103	11.3	11.00
	103	14.0	11.00
	103	16.0	12.00
11/7/92	104		
12/7/92	105		
13/7/92	106		
14/7/92	107		
15/7/92	108		
16/7/92	109	9.3	5.00
	109	12.3	6.00
	109	15.0	6.00
	109	18.3	6.00
17/7/92	110	8.3	12.00
	110	12.0	12.00
	110	14.0	14.00
	110	17.3	15.00
18/7/92	111		
19/7/92	112		
20/7/92	113	8.3	8.00
	113	11.3	8.00
	113	14.0	10.40
	113	18.0	10.40
21/7/92	114		
22/7/92	115	9.0	10.40
	115	12.0	10.40
	115	14.0	11.00
	115	17.3	12.00
23/7/92	116	8.3	8.00
	116	12.0	8.00
	116	12.0	9.00
	116	18.0	10.40

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
24/7/92	117	9.0	10.40
	117	12.3	10.40
	117	15.0	11.00
	117	18.3	12.00
25/7/92	118		
26/7/92	119		
27/7/92	120	9.0	8.70
	120	12.0	8.70
	120	14.0	9.00
	120	17.0	10.40
28/7/92	121	9.0	10.40
	121	12.0	10.40
	121	14.0	12.00
	121	18.0	12.00
29/7/92	122	8.3	7.50
	122	12.0	9.50
	122	14.3	10.40
	122	18.0	12.00
30/7/92	123	9.0	7.00
	123	12.0	7.00
	123	14.0	8.00
	123	18.0	8.50
31/7/92	124	9.0	8.70
	124	12.0	7.40
	124	14.0	8.40
	124	17.0	10.00
1/8/92	125		
2/8/92	126		
3/8/92	127	8.3	10.40
	127	11.3	10.40
	127	13.0	12.00
4/8/92	128	8.3	10.00
	128	11.0	12.00
	128	13.0	14.00
	128	17.0	14.00
5/8/92	129	9.0	8.70
	129	12.0	10.00
	129	14.0	10.00
	129	18.0	12.00

TABLA Nro. 1 - SISTEMA "J. M. COBO"
Caudales (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
6/8/92	130	9.0	10.4
	130	12.0	10.4
	130	14.0	12.0
	130	16.0	12.0
7/8/92	131		
8/8/92	132		
9/8/92	133		
10/8/92	134	8.3	8.7
	134	12.0	8.7
	134	14.3	10.0
	134	18.3	10.4
11/8/92	135	8.0	19.0
	135	12.0	19.0
	135	14.0	20.0
	135	18.0	20.0
12/8/92	136	9.0	14.5
	136	11.3	14.5
	136	14.0	15.0
	136	18.3	15.0
13/8/92	137	9.0	8.7
	137	11.3	8.7
	137	13.3	10.0
	137	18.0	10.0
14/8/92	138	8.3	10.0
	138	12.0	10.0
	138	14.0	11.0
	138	18.3	12.0
15/8/92	139		
16/8/92	140		
17/8/92	141		
18/8/92	142	9.3	12.0
	142	12.0	12.0
	142	13.3	14.5
	142	17.3	14.5

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
19/8/92	143	9.0	8.7
	143	12.0	10.0
	143	13.3	10.0
	143	18.0	12.0
20/8/92	144	8.3	10.0
	144	11.3	12.0
	144	14.0	12.0
	144	18.0	12.0
21/8/92	145	8.3	14.5
	145	12.0	15.0
	145	14.0	19.0
	145	18.3	19.0
22/8/92	146		
23/8/92	147		
24/8/92	148	9.3	10.4
	148	12.3	12.0
	148	14.0	12.0
	148	17.3	12.0
25/8/92	149	9.0	10.4
	149	11.3	10.4
	149	14.0	11.0
	149	18.0	12.0
26/8/92	150	8.3	14.5
	150	11.3	14.5
	150	14.0	14.5
	150	17.3	19.0
27/8/92	151	9.0	19.0
	151	12.0	19.0
	151	13.3	19.0
	151	18.0	25.0
28/8/92	152		
29/8/92	153		
30/8/92	154		
31/8/92	155		

TABLA Nro. 1 - SISTEMA "J. M. COBO"

Caudales (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
1/9/92	156		
2/9/92	157	9.0	19.4
	157	11.3	19.4
	157	14.0	26.0
	157	18.0	26.0
3/9/92	158	9.3	19.0
	158	12.0	22.0
	158	13.3	26.0
	158	18.3	26.0
4/9/92	159	9.3	17.0
	159	12.0	17.0
	159	14.3	19.0
	159	17.3	20.0
5/9/92	160		
6/9/92	161		
7/9/92	162	9.0	10.4
	162	11.3	10.4
	162	14.0	10.4
	162	18.0	12.0
8/9/92	163	8.3	14.5
	163	11.3	14.5
	163	14.0	19.0
	163	17.3	19.0
9/9/92	164	9.3	17.0
	164	11.3	19.0
	164	14.3	19.0
	164	18.0	19.0
10/9/92	165		
11/9/92	166		
13/9/92	168		

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
14/9/92	169	9.3	14.0
	169	12.0	16.0
	169	13.3	16.0
	169	17.0	17.0
15/9/92	170	9.3	14.5
	170	12.0	14.5
	170	14.0	14.5
	170	17.3	16.0
16/9/92	171	9.3	17.0
	171	12.0	17.0
	171	14.3	19.0
	171	18.0	19.0
17/09/92	172	9.00	19.00
	172	12.00	19.00
	172	14.00	19.00
	172	16.00	
22/09/92	177	8.00	25.00
	177	11.30	25.00
	177	14.30	25.00
	177	18.30	25.00
25/09/92	180	8.00	23.00
	180	12.00	23.00
	180	14.00	25.00
	180	19.00	25.00
28/09/92	183	8.30	20.00
	183	12.00	20.00
	183	14.00	19.00
	183	18.00	19.00

TABLA Nro. 1 - SISTEMA "J. M. COBO"

Caudales (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
29/09/92	184	8.30	19.40
	184	12.00	19.40
	184	13.30	19.40
	184	18.00	19.40
30/09/92	185	8.00	16.00
	185	12.30	16.00
	185	14.30	
	185		
01/10/92	186	9.00	9.00
	186	12.00	9.00
	186	14.00	10.40
	186	18.00	10.40
02/10/92	187	9.00	15.00
	187	12.00	15.00
	187	14.00	19.00
	187	18.00	19.00
05/10/92	190	8.30	10.40
	190	12.00	10.40
	190	14.30	12.00
	190	18.00	12.00
06/10/92	191	8.00	16.00
	191	11.30	16.00
	191	14.00	19.00
	191	17.00	19.00
07/10/92	192	7.30	17.10
	192	11.30	17.50
	192	14.00	21.40
	192	18.00	18.20

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
08/10/92	193	7.00	16.00
	193	11.00	17.00
	193	13.30	21.00
	193	18.00	21.00
09/10/92	194	7.30	16.00
	194	12.00	16.00
	194	14.30	19.00
	194	17.30	19.00
13/10/92	198	7.30	15.00
	198	12.30	15.00
	198	14.00	15.00
	198	18.30	19.00
14/10/92	199	7.30	19.40
	199	12.00	19.40
	199	14.00	22.00
	199	19.00	22.00
15/10/92	200	7.30	19.00
	200	11.30	19.00
	200	14.00	
	200		
19/10/92	204	7.00	26.00
	204	11.30	26.00
	204	14.00	
	204		

TABLA Nro. 1 - SISTEMA "J. M. COBO"
Caudales (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
20/10/92	205	7.00	12.00
	205	10.00	
	205	11.00	
	205	12.00	
	205	12.30	12.00
	205	13.00	
	205	13.30	12.00
	205	14.00	
	205	15.00	
	205	16.00	
	205	17.00	
	205	18.00	15.00
	205	19.00	
	205	20.00	
	205	21.00	
	205	22.00	
	205	23.00	
	205	24.00	

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
21/10/92	206	1.00	
	206	2.00	
	206	3.00	
	206	4.00	
	206	5.00	
	206	6.00	
	206	7.00	
	206	8.00	25.00
	206	9.00	
	206	10.00	
	206	11.00	
	206	12.00	25.00
	206	13.00	
	206	14.00	25.00
	206	15.00	
	206	16.00	
	206	17.00	
	206	18.00	25.00
	206	19.00	
	206	20.00	
	206	21.00	
	206	22.00	
	206	23.00	
	206	24.00	

TABLA Nro. 1 - SISTEMA "J. M. COBO"
Caudales (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL EFLUENTE l/seg
22/10/92	207	1.00	
	207	2.00	
	207	3.00	
	207	4.00	
	207	5.00	
	207	6.00	
	207	7.00	
	207	8.00	
	207	9.00	
	207	10.00	26.00
	207	11.00	26.00
	207	12.00	26.00
	207	13.00	26.00
	207	14.00	26.00
	207	15.00	26.00
	207	16.00	26.00
	207	17.00	26.00
	207	18.00	26.00
	207	19.00	25.50
	207	20.00	25.50
	207	21.00	25.50
	207	22.00	26.00
	207	23.00	26.00
	207	24.00	25.21

TABLA Nro. 2 - SISTEMA "J.M. COBO"
CAUDALES MEDIOS DIARIOS (30/3/92 al 22/10/92)

FECHA	DIA OPERATIVO	CAUDAL MEDIO DIARIO
30/3/92	1	6.45
31/3/92	2	7.27
1/4/92	3	9.08
2/4/92	4	9.29
3/4/92	5	13.27
7/4/92	9	9.50
8/4/92	10	9.72
9/4/92	11	9.61
10/4/92	12	9.65
13/4/92	15	7.11
14/4/92	16	7.15
15/4/92	17	7.27
16/4/92	18	6.42
21/4/92	23	11.49
23/4/92	25	14.02
24/4/92	26	13.50
27/4/92	29	14.02
28/4/92	30	12.63
30/4/92	32	12.63
4/5/92	36	14.63
5/5/92	37	11.11
6/5/92	38	14.51
7/5/92	39	14.75
8/5/92	40	14.75
12/5/92	44	15.75
13/5/92	45	9.10
14/5/92	46	10.85
15/5/92	47	11.50
18/5/92	50	7.95
19/5/92	51	15.63
20/5/92	52	15.00
21/5/92	53	13.75
26/5/92	58	6.35
27/5/92	59	6.53
1/6/92	64	11.50
2/6/92	65	11.75
3/6/92	66	13.25
4/6/92	67	16.63
5/6/92	68	19.25
9/6/92	72	27.00
10/6/92	73	14.00
12/6/92	75	11.35
18/6/92	81	15.75

TABLA Nro. 2 - SISTEMA "J.M. COBO"
CAUDALES MEDIOS DIARIOS (30/3/92 al 22/10/92) (cont.)

FECHA	DIA OPERATIVO	CAUDAL MEDIO DIARIO
22/6/92	85	27.00
23/6/92	86	26.75
25/6/92	88	12.20
26/6/92	89	10.70
29/6/92	92	10.95
30/6/92	93	8.45
10/7/92	103	11.10
16/7/92	109	5.75
17/6/92	110	13.25
20/7/92	113	9.20
22/7/92	115	10.95
23/7/92	116	8.85
24/7/92	117	10.95
27/7/92	120	9.20
28/7/92	121	11.20
29/7/92	122	9.85
30/7/92	123	7.63
31/7/92	124	8.63
3/8/92	127	10.93
4/8/92	128	12.50
5/8/92	129	10.18
6/8/92	130	11.20
10/8/92	134	9.45
11/8/92	135	19.50
12/8/92	136	14.75
13/8/92	137	9.35
14/8/92	141	10.75
18/8/92	142	13.25
19/8/92	143	10.18
20/8/92	144	11.50
21/8/92	147	16.88
24/8/92	148	11.60
25/8/92	149	10.95
26/8/92	150	15.63
27/8/92	156	20.50
2/9/92	157	22.70
3/9/92	158	23.25
4/9/92	161	18.25
7/9/92	162	10.80
8/9/92	163	16.75
9/9/92	164	18.50
14/9/92	169	15.75
15/9/92	170	14.88
16/9/92	171	18.00

TABLA Nro. 2 - SISTEMA "J.M. COBO"
CAUDALES MEDIOS DIARIOS (30/3/92 al 22/10/92) (cont.)

FECHA	DIA OPERATIVO	CAUDAL MEDIO DIARIO
17/09/92	172	19.00
22/09/92	177	25.00
25/09/92	180	24.00
28/09/92	183	19.50
29/09/92	184	19.40
30/09/92	185	16.00
01/10/92	186	9.70
02/10/92	187	17.00
05/10/92	190	11.20
06/10/92	191	17.50
07/10/92	192	18.55
08/10/92	193	18.75
09/10/92	194	17.50
13/10/92	198	16.00
14/10/92	199	20.70
15/10/92	200	19.00
19/10/92	204	26.00
20/10/92	205	12.75
21/10/92	206	25.00
22/10/92	207	25.85

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
30/3/92	1	12.00	20.9	19	18	18
	1	14.00	24	21	22	22
	1	18.00	22	20	19	20
31/3/92	2	8.00	20.4	19	19	18
1/4/92	3	8.00	19.6	19	18	18
	3	12.00	22	21	20	20
	3	14.00	23.8	21	20	21
	3	18.00	18	16	17	17
2/4/92	4	8.00	22.3	21	18	18
	4	12.00	23.3	19	18	18
	4	14.00	25	24	23	22
	4	18.00	23.2	21	19	18
3/4/92	5	8.00	19.6	19	18	19
	5	12.00	19	18	18	17
	5	14.00	27.1	22	21	22
4/4/92	6					
5/4/92	7					
6/4/92	8					
7/4/92	9	8.00	14.4	18	13	14
	9	12.00	16	15	13	14
	9	14.00	21	17	16	18
8/4/92	10	14.00	23.1	18	19	19
	10	18.00	21	19	17	19
9/4/92	11	8.00	17.5	20	14	15
	11	12.00	21	20	19	17
	11	14.00	23	18	17	19
	11	18.00	16.9	18	17	16
10/4/92	12	8.00	17.2	16	15	15
	12	12.00	15	14	13	14
	12	14.00	14	13	11	12
13/4/92	15	8.00	17	14	14	14
	15	12.00	24.8	18	19	19
	15	14.00	19.3	15	16	17
14/4/92	16	8.00	19.3	16	15	15
	16	12.00	25.3	18	17	18
	16	14.00	23.9	18	19	19
	16	18.00		17	16	17
15/4/92	17	8.00	15.5	16	15	15
	17	12.00	16	17	16	17
	17	14.00	25.4	19	18	20
	17	18.00	23.7	18	17	17
16/4/92	18	8.00	15.5	16	16	16
	18	12.00		16	17	17
	18	14.00	16.2	16	15	15
	18	18.00	13	14	13	14

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
17/4/92	19					
18/4/92	20					
19/4/92	21					
20/4/92	22					
21/4/92	23	8.00	11.7	12	10	11
	23	12.00	12.2	12	11	11
	23	14.00	17.8	17	16	15
	23	18.00	15.1	14	13	14
22/4/92	24					
23/4/92	25	8.00	11.7	15	11	12
	25	12.00	17.8	16	13	14
	25	18.00	18.7	19	17	16
24/4/92	26	8.00	12.8	16	12	13
	26	12.00	13.4	17	14	
	26	14.00	16.7	16	15	15
	26	18.00	15.5	14	12	
25/4/92	27					
26/4/92	28					
27/4/92	29	12.00	16.4	15	12	13
28/4/92	30	8.00		11	13	
	30	12.00	15.4		10	15
	30	14.00	16.2		12	14
	30	18.00	13.5			
29/4/92	31					
30/4/92	32	8.00		14	13	
	32	12.00	13.8	11	12	10
	32	14.00	14.5	12	10	14
	32	18.00	12.3			
1/4/92	33					
2/4/92	34					
3/4/92	35					
4/5/92	36	8.00	14.9	15	16	15
	36	12.00	15.3	12	13	11
	36	14.00	24.3	13	15	12
	36	18.00	22.8			
5/5/92	37	8.00	18.8	15	19	19
	37	12.00	21.3	13	17	15
	37	14.00	23.5	13	18	16
	37	18.00	22.2			
6/5/92	38		20.3	17	18	20
	38		21.8	15	15	19
	38		27	16	16	20
	38		24.6			

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
7/5/92	39		18.5	19	20	
	39		19.9	17	17	
	39			18	18	
	39					
8/5/92	40		13.8	17	19	18
	40		15.3	14	15	15
	40		14.1	15	15	16
	40		12.3			
9/5/92	41					
10/5/92	42					
11/5/92	43					
12/5/92	44		13.2	15	16	17
	44		16.4	12	13	14
	44		17.5	13	14	15
	44		15.7			
13/5/92	45		11.8	13	14	12
	45		13.4	10	11	9
	45		16.6	11	13	11
	45		14.7			
14/5/92	46		12.5	14	16	17
	46		15.7	10	13	15
	46		16.4	11	14	16
	46		14.9			
15/5/92	47		11.3	21	22	19
	47		15.4	11	15	15
	47		16.2	12	16	16
	47		14.8			
16/5/92	48					
17/5/92	49					
18/5/92	50	9.30	9.2	10	15	17
	50	12.00	11.9	8	9	11
	50	14.00	13.5	9	12	14
	50	18.00	12.3			
19/5/92	51	9.30	7.9	9	11	14
	51	12.30	14.3	7	9	10
	51	14.30	16.3	8		11
	51	18.00	15.4			
20/5/92	52	9.30	8.8	10	12	13
	52	12.30	11.3	7	9	9
	52	14.00	12.5	8	11	12
	52	18.00	11.7			
21/5/92	53	9.00	12.2			
	53	12.00	13.4	9	11	8
	53	14.30	12.9	10	11	9
	53	17.30	10.8			

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
22/5/92	54					
23/5/92	55					
24/5/92	56					
25/5/92	57					
26/5/92	58	8.30	10.7	10	9	10
	58	12.00	9.4	8	6	7
	58	14.00	11.4	9	7	8
	58	17.30	10.7			
27/5/92	59	8.30	8.2			
	59	12.30	10.2	7	8	9
	59	14.00	12.3	7	9	10
	59	18.00	11.7			
28/5/92	60					
29/5/92	61					
30/5/92	62					
31/5/92	63					
1/6/92	64	8.30	10.3			
	64	12.00	12.2	7	8	8
	64	14.00	12.9	8	10	11
2/6/92	65	8.30	8.5	11	12	13
	65	12.00	9.6	7	8	8
	65	14.30	10.7	8	10	11
3/6/92	66	9.00	11.3	13	15	13
	66	12.00	12.5	9	10	8
	66	14.30	11.3			
4/6/92	67	8.30	8.3	11	12	13
	67	11.30	12.5	7	8	9
	67	14.00	16.7	8	11	10
5/6/92	68	9.00	11.5	13	14	12
	68	12.00	12.8			
	68	14.00	13.9	9	10	8
6/6/92	69					
7/6/92	70					
8/6/92	71					
9/6/92	72	9.00	6.7	8	10	11
	72	12.00	8.2			
	72	14.30	8.8		7	8
10/6/92	73					
11/6/92	74					
12/6/92	75	9.00	7.3	9	10	11
	75	12.00	8.1		7	9
	75	14.00	9.3	6	8	10
13/6/92	76					
14/6/92	77					
15/6/92	78					

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
16/6/92	79					
17/6/92	80					
18/6/92	81	9.30	16.6	9	10	12
	81	12.00	17.3			
	81	14.00	19.6			
19/6/92	82					
20/6/92	83					
21/6/92	84					
22/6/92	85	9.00	12.3	9	10	11
	85	12.00	13.5	6	7	9
	85	14.00	14.3	6	8	9
23/6/92	86	9.00	12.2	12	13	14
	86	12.00	13.1	8	9	11
	86	14.00	14.3			
24/6/92	87					
25/6/92	88	9.00	10.9	9	11	11
	88	12.00	11.6	7	8	10
	88	14.00	12.4	7	10	10
26/6/92	89	9.00	11.2	13	14	15
	89	12.00	11.9	11	11	12
	89	14.00	13.4	11	12	14
24/08/92	148	8.00	8.6	8	9	9
	148	11.30	8.9	6	7	8
	148	14.00	9.3	7	7	8
	148	18.00	8.4			
25/08/92	149	8.30	15.3	13	14	15
	149	12.00	15.8	12	11	13
	149	14.30	16.7	13	12	13
	149	19.00	14.2			
26/08/92	150	8.00	12.8	11	10	12
	150	11.30	13.4	7	7	9
	150	13.30	14.9	8	7	10
	150	18.00	11.2			
27/08/92	151	9.00	11.7	10	9	12
	151	12.30	12.3	7	7	8
	151	14.30	13.9	8	7	9
	151	19.00	10.8			
02/09/92	157	8.00	9.8	8	9	10
	157	11.30	10.4	6	7	8
	157	14.00	11.7	6	8	9
	157	18.00	9.5			
03/09/92	158	8.00	11.7	12	11	14
	158	12.00	12.8	10	9	12
	158	14.00	13.6	10	10	13
	158	18.00	10.8			

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
04/09/92	159	8.30	13.6	12	15	14
	159	12.00	14.5	11	12	12
	159	14.30	18.1	12	14	13
	159	18.00	14.5			
07/09/92	162	8.30	13.9	12	13	13
	162	11.30	14.7	9	11	11
	162	14.00	16.8	10	12	11
	162	18.00	14.1			
08/09/92	163	8.00	13.8	11	10	12
	163	12.00	14.5	9	8	10
	163	14.00	15.2	10	8	10
	163	19.00	12.3			
17/09/92	172	9.00	11.7	12	10	13
	172	12.00	12.2	9	7	11
	172	14.00	14.6	11	9	11
	172	16.00	12.1			
22/09/92	177	8.00	12.4	13	14	14
	177	11.30	12.7	11	12	11
	177	14.30	14.6	12	13	13
	177	18.30	13.2			
25/09/92	180	8.00	8.8	11	10	12
	180	12.00	9.2	10	8	10
	180	14.00	10.3	10	8	11
	180	19.00	9.1			
28/09/92	183	8.30	14.7	13	14	14
	183	12.00	15.3	11	12	12
	183	14.00	16.1	11	13	11
	183	18.00	14.5			
29/09/92	184	8.30	16.8	14	15	15
	184	12.00	17.3	13	12	13
	184	13.30	19.2	13	13	14
	184	18.00	15.1			
30/09/92	185	8.00	20.4	15		21
	185	12.30	28	17		21.8
	185	14.30		16		22.9
	185					
01/10/92	186	9.00	17.6	18.5	17.3	19.3
	186	12.00	18.5	17.7	16.1	17.9
	186	14.00	21.3	17.2	17.7	18.2
	186	18.00	19.7			
02/10/92	187	9.00	18.2	17.6	18.8	17.9
	187	12.00	18.6	15.4	18.2	16.2
	187	14.00	22.3	16.5	18.5	16.8
	187	18.00	19.4			

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
05/10/92	190	8.30	14.2	13.4	14.5	13.7
	190	12.00	14.8	12.6	13.7	12.9
	190	14.30	17.6	13.9	14.3	14.4
	190	18.00	16.5			
06/10/92	191	8.00	12.6	13.3	12.6	13.7
	191	11.30	12.9	11.8	12.1	12.1
	191	14.00	14.7	12.6	12.4	12.9
	191	17.00	13.6			
07/10/92	192	7.30	17.1	16.2	17.6	16.5
	192	11.30	17.5	15.8	14.9	16.1
	192	14.00	21.4	15.5	17.5	15.7
	192	18.00	18.2			
08/10/92	193	7.00	15.9	15	17	15
	193	11.00	16.4	12	16	13
	193	13.30	19.9	13	16	14
	193	18.00	17.5			
09/10/92	194	7.30	15.6	15	17	16
	194	12.00	15.9	15	15	15
	194	14.30	19.7	15	16	16
	194	17.30	17.5			
13/10/92	198	7.30	15.6	15	17	15
	198	12.30	16.7	12	16	14
	198	14.00	20.5	14	16	15
	198	18.30	17.7			
14/10/92	199	7.30	24.4	22	22	22
	199	12.00	24.9	20	19	21
	199	14.00	28.6	21	20	22
	199	19.00	23.8			
15/10/92	200	7.30	17.7	17		18
	200	11.30	18.6	15		17
	200	14.00		16		18
	200					
19/10/92	204	7.00	13.7	16		18
	204	11.30	16.7	16		17
	204	14.00		15		18
	204					
20/10/92	205	7.00	13.5	13	14	14
	205	10.00	16.1	18.4	16.6	17.2
	205	11.00	16.5	18.8	17.7	17.8
	205	12.00	17.3	19.5	18.6	18.5
	205	12.30	17.4	19.7	18.8	18.9
	205	13.00	17.6	19.8	19	19.3
	205	13.30	17.6	20	19.2	19.5
	205	14.00	17.8	20.2	19.3	19.7
	205	15.00	18.3	19.8	20.4	19.4
	205	16.00	18.5	19.8	21	20.4
	205	17.00	20.5	19.9	21.2	20.4
	205	18.00	21.5	19.7	20.7	20.1
	205	19.00	20.7	19.6	20.4	19.9
	205	20.00	17.8	19.4	20	19.6
	205	21.00	14.5	19.3	19.7	19.3
	205	22.00	13	19.1	19.5	19
	205	23.00	12.8	18.9	19.1	18.7
	205	24.00	12.3	18.9	19	18.6

TABLA Nro. 3 - SISTEMA "J.M.COBO"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP AMBIENTE °C	TEMP CRUDO °C	TEMP EFLUENTE °C	TEMP LAGUNA °C
21/10/92	206	1.00	12.1	18.6	18.6	18.2
	206	2.00	11.6	18.3	18.2	18
	206	3.00	10.9	17.8	17.9	17.2
	206	4.00	10.5	18.2	16.5	17.5
	206	5.00	10.6	18	16.9	17.2
	206	6.00	10.2	17.8	16.5	17.3
	206	7.00	10	17.9	16.8	17.4
	206	8.00	12.7	18.1	17	17.8
	206	9.00	14.2	18.5	17.4	18.2
	206	10.00	15.6	18.9	18.6	18.8
	206	11.00	16.7	19.4	19.7	19.5
	206	12.00	18.9	19.5	19.9	19.4
	206	13.00	21.5	19.7	20.2	19.8
	206	14.00	21.8	20.1	20.6	20.3
	206	15.00	22.9	20.7	22.1	21.2
	206	16.00	23.1	20.7	22.1	21.4
	206	17.00	23.4	20.5	21.9	21.1
	206	18.00	23.8	20	21.7	20.8
	206	19.00	22.8	20	21.2	20.1
	206	20.00	21.8	20	21.2	20.1
	206	21.00	18.2	19.8	20.9	20
	206	22.00	17.5	19.8	20.6	19.7
	206	23.00	15.9	19.8	20.1	19.4
	206	24.00	15.9	19.4	19.8	19.1
22/10/92	207	1.00	15.8	19.8	20.1	19.4
	207	2.00	15.3	19.4	19.8	19.1
	207	3.00	14.6	19.1	19.5	18.9
	207	4.00	14.3	19.1	19	18.9
	207	5.00	14.1	19.1	18.8	18.9
	207	6.00	14.1	19	18.4	18.9
	207	7.00	14	19	18	18.4
	207	8.00	14.9	19.2	18.1	18.4
	207	9.00	15.8	19.3	17.9	18.4
	207	10.00	16.1	19.4	18.3	18.7
	207	11.00				
	207	12.00				
	207	13.00				
	207	14.00				
	207	15.00				
	207	16.00				
	207	17.00				
	207	18.00				
	207	19.00				
	207	20.00				
	207	21.00				
	207	22.00				
	207	23.00				
	207	24.00				

TABLA Nro. 4 - SISTEMA "J.M.COBO"
TEMPERATURA MEDIA DIARIA DIURNA

FECHA	DIA OPERATIVO	TEMPERATURA		
		MEDIA CRUDO ° C	MEDIA EFLUENTE ° C	MEDIA LAGUNA ° C
30/3/92	1	20	20	20
31/3/92	2	19	19	18
1/4/92	3	19	19	19
2/4/92	4	21	20	19
3/4/92	5	20	19	19
7/4/92	9	17	14	15
8/4/92	10	19	18	19
9/4/92	11	19	17	17
10/4/92	12	14	13	14
13/4/92	15	16	16	17
14/4/92	16	17	17	17
15/4/92	17	18	17	17
16/4/92	18	16	15	16
21/4/92	23	14	13	13
23/4/92	25	17	14	14
24/4/92	26	16	13	14
27/4/92	29	15	12	13
28/4/92	30	11	12	15
30/4/92	32	12	12	12
4/5/92	36	13	15	13
5/5/92	37	14	18	17
6/5/92	38	16	16	20
7/5/92	39	18	18	
8/5/92	40	15	16	16
12/5/92	44	13	14	15
13/5/92	45	11	13	11
14/5/92	46	12	14	16
15/5/92	47	15	18	17
18/5/92	50	9	12	14
19/5/92	51	8	10	12
20/5/92	52	8	11	11
21/5/92	53	10	11	9
26/5/92	58	9	7	8
27/5/92	59	7	9	10
1/6/92	64	8	9	10
2/6/92	65	9	10	11
3/6/92	66	11	13	11
4/6/92	67	9	10	11
5/6/92	68	11	12	10
9/6/92	72	8	9	10
12/6/92	75	8	8	10
18/6/92	81	9	10	12

TABLA Nro. 4 - SISTEMA "J.M.COBO"
TEMPERATURA MEDIA DIARIA DIURNA (cont.)

FECHA	DIA OPERATIVO	TEMPERATURA		
		MEDIA CRUDO ° C	MEDIA EFLUENTE ° C	MEDIA LAGUNA ° C
22/6/92	85	7	8	10
23/6/92	86	10	11	13
25/6/92	88	8	10	10
26/6/92	89	12	12	14
23/08/92				
24/08/92	148	7	8	8
25/08/92	149	13	12	14
26/08/92	150	9	8	10
27/08/92	151	8	8	10
02/09/92	157	7	8	9
03/09/92	158	11	10	13
04/09/92	159	12	14	13
07/09/92	162	10	12	12
08/09/92	163	10	9	11
17/09/92	172	11	9	12
22/09/92	177	12	13	13
25/09/92	180	10	9	11
28/09/92	183	12	13	12
29/09/92	184	13	13	14
30/09/92	185	16		22
01/10/92	186	18	17	18
02/10/92	187	17	19	17
05/10/92	190	13	14	14
06/10/92	191	13	12	13
07/10/92	192	16	17	16
08/10/92	193	13	16	14
09/10/92	194	15	16	16
13/10/92	198	14	16	15
14/10/92	199	21	20	22
15/10/92	200	16		18
19/10/92	204	16		18
20/10/92	205	19	19	19
21/10/92	206	19	19	19
22/10/92	207	19	19	19

TABLA Nro. 5 - SISTEMA "J.M.COBO"
 TEMPERATURAS MEDIAS SEMANALES
 30/4/92 - 22/10/92

FECHA	TEMPERATURA		
	AMBIENTE ° C	LAGUNA ° C	CRUDO ° C
30/3/92	22.0	19.2	20.0
6/4/92	18.3	16.0	17.2
13/4/92	19.6	16.7	16.5
20/4/92	14.9	13.4	15.3
27/4/92	14.6	13.2	12.6
4/5/92	19.5	16.3	15.3
11/5/92	14.8	14.7	12.8
18/5/92	12.2	11.6	8.6
25/5/92	10.6	8.8	8.2
1/6/92	11.7	10.3	9.3
8/6/92	8.1	9.8	7.7
15/6/92	17.8	12.0	9.0
22/6/92	12.6	11.5	9.0
24/8/92	12.4	10.5	9.2
31/8/92	12.6	11.7	9.7
7/9/92	14.4	11.2	10.2
14/9/92	12.7	11.7	10.7
21/9/92	11.3	11.8	11.2
28/9/92	18.5	16.7	15.1
5/10/92	16.5	14.5	14.0
12/10/92	20.9	18.0	16.9
19/10/92	16.4	18.9	19.0

TABLA Nro. 6 - SISTEMA "J.M.COBO"
pH

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
30/3/92	1	8.00	7.5	7.6	7.2
	1	12.00	7.7	7.6	7.5
	1	14.00	8.0	8.1	7.8
	1	18.00	7.8	8.0	7.7
31/3/92	2	8.00	7.3	7.3	7.3
	2	12.00	7.3	7.8	8.0
	2	14.00	7.9	8.3	8.6
	2	18.00	7.7	7.9	8.0
1/4/92	3	8.00	7.5	7.8	7.5
	3	12.00	6.8	7.2	7.8
	3	14.00	7.3	7.3	7.8
	3	18.00	7.4	7.1	7.5
2/4/92	4	8.00	6.9	7.1	7.3
	4	12.00	7.3	7.2	7.0
	4	14.00	7.2	7.0	7.4
	4	18.00	7.3	6.8	7.2
3/4/92	5	8.00	7.6	7.9	7.9
	5	12.00	7.5	7.8	7.8
	5	14.00	7.4	8.1	7.6
4/4/92	6				
5/4/92	7				
6/4/92	8				
7/4/92	9	8.00	6.9	7.9	7.4
	9	12.00	7.2	7.6	7.3
	9	14.00	8.0	8.5	8.3
8/4/92	10	8.00	8.6	7.8	8.1
	10	12.00	8.0	7.9	7.9
	10	14.00	7.9	8.7	8.4
	10	18.00	7.7	8.4	7.9
9/4/92	11	8.00	7.6	8.5	8.0
	11	12.00	7.4	8.1	7.9
	11	14.00	7.2	7.9	7.6
	11	18.00	7.2	7.5	7.6
10/4/92	12	8.00	7.4	8.3	8.0
	12	12.00	7.2	8.3	7.9
	12	14.00	7.2	7.9	7.9
	12	18.00	7.9	7.8	7.7
11/4/92	13				
12/4/92	14				
13/4/92	15	8.00	6.9	7.0	7.0
	15	12.00	7.6	7.6	7.9
	15	14.00	7.4	7.3	7.6

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
14/4/92	16	8.00	7.5	8.0	7.3
	16	12.00	7.4	8.0	7.3
	16	14.00	7.8	7.2	7.3
	16	18.00	7.6	7.9	7.3
15/4/92	17	8.00	7.7	8.1	7.3
	17	12.00	7.8	7.9	7.3
	17	14.00	7.7	7.9	7.3
	17	18.00	7.7	7.7	7.3
16/4/92	18	8.00	7.5	8.0	7.3
	18	12.00	7.4	8.0	7.3
	18	14.00	7.3	8.0	7.3
	18	18.00	7.4	7.8	7.3
17/4/92	19				
18/4/92	20				
19/4/92	21				
20/4/92	22				
21/4/92	23	8.00	6.9	7.1	7.3
	23	12.00	6.7	7.1	7.3
	23	14.00	7.8	7.8	7.3
	23	18.00	7.3	7.4	7.3
22/4/92	24				
23/4/92	25	8.00	7.0	7.7	7.3
	25	12.00	7.3	7.6	7.3
	25	14.00	6.6	7.7	7.3
	25	18.00	7.0	7.5	7.3
24/4/92	26	8.00	7.2	7.7	7.3
	26	12.00	7.2	7.5	7.3
	26	14.00	7.1	7.3	7.3
	26	18.00	7.3	7.5	7.3
25/4/92	27				
26/4/92/2	28				
27/4/92	29				
28/4/92	30				
29/4/92	31				
30/4/92	32				

TABLA Nro. 6 - SISTEMA "J.M.COBO"
pH (cont.)

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
1/5/92	33				
2/5/92	34				
3/5/92	35				
4/5/92	36				
5/5/92	37				
6/5/92	38				
7/5/92	39				
8/5/92	40				
9/5/92	41				
10/5/92	42				
11/5/92	43				
12/5/92	44				
13/5/92	45				
14/5/92	46				
15/5/92	47				
16/5/92	48				
17/5/92	49				
18/5/92	50	9.30	5.9	5.4	4.9
	50	12.00	6.4	5.7	6.9
	50	14.00	6.3	6.2	7.0
19/5/92	51	9.30	6.7	6.2	6.1
	51	12.30	7.2	6.8	6.9
	51	14.30	6.9	7.0	7.2
20/5/92	52	9.30	6.4	7.0	7.3
	52	12.30	7.0	7.5	7.7
	52	14.00	6.8	7.4	7.6
21/5/92	53	9.00	5.9	6.5	7.2
	53	12.00	6.4	7.2	6.6
	53	14.30	6.3	7.2	6.4
22/5/92	54				
23/5/92	55				
24/5/92	56				
25/5/92	57				
26/5/92	58	8.30	5.8	6.2	6.3
	58	12.00	6.8	7.3	7.6
	58	14.00	6.3	6.5	6.9
27/5/92	59	8.30	6.6	6.7	6.9
	59	12.30	7.0	7.1	7.3
	59	14.00	6.8	7.2	7.2
28/5/92	60				
29/5/92	61				
30/5/92	62				
31/5/92	63				
1/6/92	64		6.4	7.3	7.1
	64		7.5	7.7	7.2
	64		7.2	7.5	6.9
2/6/92	65		6.0	6.5	7.4
	65		6.6	6.9	7.3
	65		6.2	6.4	7.6

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
3/6/92	66	8.00	6.8	7.2	7.1
	66	12.00	6.4	7.1	7.1
	66	14.00	6.0	6.9	7.6
4/6/92	67	8.00	6.6	6.3	5.8
	67	12.00	7.3	6.7	6.5
	67	14.00	7.2	6.2	6.3
5/6/92	68	8.00	5.9	6.7	7.3
	68	12.00	6.4	7.9	7.5
	68	14.00	6.7	7.5	7.5
6/6/92	69				
7/6/92	70				
8/6/92	71				
9/6/92	72	8.00	5.8	6.6	7.4
	72	12.00	6.5	7.3	7.3
	72	14.00	6.3	7.1	7.2
10/6/92	73				
11/6/92	74				
12/6/92	75	8.00	6.4	6.9	7.4
	75	12.00	6.7	7.1	7.5
	75	14.00	6.7	7.0	7.2
13/6/92	76				
14/6/92	77				
15/6/92	78				
16/6/92	79				
17/6/92	80				
18/6/92	81	8.00	5.4	5.7	6.1
	81	12.00	5.7	5.4	6.2
	81	14.00	6.3	5.9	6.9
19/6/92	82				
20/6/92	83				
21/6/92	84				
22/6/92	85	8.00	4.8	5.5	5.3
	85	12.00	5.6	5.8	5.7
	85	14.00	5.4	5.8	5.4
23/6/92	86	8.00	5.9	6.1	5.4
	86	12.00	6.1	6.7	5.7
	86	14.00	6.2	6.3	6.3
24/6/92	87				
25/6/92	88	8.00	5.6	6.2	6.6
	88	12.00	5.3	5.1	6.2
	88	14.00	6.1	5.6	6.3
26/6/92	89	8.00	5.9	6.0	5.6
	89	12.00	6.3	6.3	4.9
	89	14.00	6.2	6.7	5.4
27/6/92	90				
28/6/92	91				
29/6/92	92	8.00	5.6	5.9	6.6
	92	12.00	5.5	5.9	6.3
	92	14.00	6.2	6.1	6.3
30/6/92	93	8.00	5.5	6.3	5.7
	93	12.00	5.6	6.6	5.9
	93	14.00	5.3	5.9	6.2

TABLA Nro. 6 - SISTEMA "J.M.COBO"
pH (cont.)

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
1/7/92	94				
2/7/92	95				
3/7/92	96				
4/7/92	97				
5/7/92	98				
6/7/92	99				
7/7/92	100				
8/7/92	101				
9/7/92	102				
10/7/92	103	8.00	6.6	6.9	7.7
	103	12.00	5.7	7.2	7.5
	103	14.00	7.1	7.4	7.9
11/7/92	104				
12/7/92	105				
13/7/92	106				
14/7/92	107				
15/7/92	108				
16/7/92	109	8.00	6.6	7.1	7.3
	109	12.00	6.3	7.6	7.9
	109	14.00	5.9	6.9	7.9
17/7/92	110	8.00	7.4	7.8	6.9
	110	12.00	7.1	7.6	7.1
	110	14.00	6.9	7.4	7.2
18/7/92	111				
19/7/92	112				
20/7/92	113	8.00	7.2	7.4	6.9
	113	12.00	7.6	7.9	6.9
	113	14.00	6.9	7.2	6.2
21/7/92	114				
22/7/92	115	8.00	7.4	7.6	7.7
	115	12.00	7.9	7.7	7.3
	115	14.00	7.6	7.4	7.9
23/7/92	116	8.00	7.4	7.7	7.2
	116	12.00	6.7	7.9	7.3
	116	14.00	6.6	7.4	7.7

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
24/7/92	117	8.00	6.9	7.2	6.9
	117	12.00	7.1	7.5	7.1
	117	14.00	7.5	7.1	7.3
25/7/92	118				
26/7/92	119				
27/7/92	120	8.00	7.5	7.9	7.2
	120	12.00	7.3	7.9	7.4
	120	14.00	7.8	7.9	7.6
28/7/92	121	8.00	6.1	6.1	5.9
	121	12.00	6.6	7.1	6.7
	121	14.00	6.4	6.3	6.4
29/7/92	122	8.00	6.1	6.8	7.1
	122	12.00	6.9	8.3	7.9
	122	14.00	6.3	9.1	8.2
30/7/92	123	8.00	5.8	6.9	7.2
	123	12.00	6.2	6.4	7.0
	123	14.00	5.9	6.1	6.5
31/7/92	124	8.00	6.7	7.4	7.6
	124	12.00	6.5	7.3	7.3
	124	14.00	7.2	7.6	7.7
1/8/92	125				
2/8/92	126				
3/8/92	127	8.00	7.5	7.5	7.6
	127	12.00	7.7	7.9	8.1
	127	14.00	7.8	7.8	7.9
4/8/92	128	8.00	6.7	7.3	7.7
	128	12.00	6.4	7.4	7.7
	128	14.00	6.9	7.6	8.0
5/8/92	129	8.00	6.8	6.8	6.9
	129	12.00	6.9	7.2	7.4
	129	14.00	7.2	7.4	7.6

TABLA Nro. 6 - SISTEMA "J.M.COBO"
pH (cont.)

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
6/8/92	130	8.00	6.7	7.9	7.3
	130	12.00	6.9	7.7	7.4
	130	14.00	7.4	8.1	7.6
7/8/92	131				
8/8/92	132				
9/8/92	133				
10/8/92	134	8.00	5.4	7.6	5.9
	134	12.00	6.0	7.6	6.7
	134	14.00	6.3	8.2	7.2
11/8/92	135	8.00	6.3	7.8	6.4
	135	12.00	7.5	7.9	7.6
	135	14.00	7.2	7.6	7.5
12/8/92	136	8.00	7.0	7.7	7.1
	136	12.00	7.5	7.9	7.5
	136	14.00	7.3	7.9	7.4
13/8/92	137	8.00	5.5	7.3	5.7
	137	12.00	5.3	7.2	5.7
	137	14.00	6.1	7.4	6.3
14/8/92	138	8.00	6.3	7.2	6.4
	138	12.00	6.5	7.3	6.5
	138	14.00	5.9	7.9	6.1
15/8/92	139				
16/8/92	140				
17/8/92	141				
18/8/92	142	8.00	5.4	7.1	6.5
	142	12.00	6.2	7.3	6.2
	142	14.00	7.6	7.6	6.5
19/8/92	143	8.00	5.7	7.1	6.3
	143	12.00	6.1	7.5	6.5
	143	14.00	6.3	7.7	7.1
20/8/92	144	8.00	6.2	7.3	6.4
	144	12.00	6.5	7.9	6.7
	144	14.00	5.9	7.2	6.1
21/8/92	145	8.00	6.3	7.5	6.5
	145	12.00	6.8	7.6	6.9
	145	14.00	5.7	7.0	6.3
22/8/92	146				
23/8/92	147				
24/8/92	148	8.00	6.4	8.6	7.6
	148	12.00	6.9	7.9	7.4
	148	14.00	7.2	8.4	7.2
25/8/92	149	8.00	6.5	7.9	6.6
	149	12.00	6.8	7.8	6.9
	149	14.00	8.1	7.9	8.3

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
26/8/92	150	8.00	6.5	7.2	6.7
	150	12.00	6.7	7.6	6.9
	150	14.00	7.1	7.4	7.2
27/8/92	151	8.00	7.1	7.4	7.3
	151	12.00	7.2	7.4	7.5
	151	14.00	7.3	7.2	7.5
28/8/92	152				
29/8/92	153				
30/8/92	154				
31/8/92	155				
1/9/92	156				
2/9/92	157	8.00	6.0	6.5	6.2
	157	12.00	6.4	6.9	6.5
	157	14.00	6.1	7.2	6.5
3/9/92	158	8.00	5.9	7.5	6.2
	158	12.00	5.6	6.8	5.8
	158	14.00	6.1	7.2	6.3
4/9/92	159	8.00	7.3	7.2	7.5
	159	12.00	7.4	7.4	7.6
	159	14.00	6.9	6.7	7.1
5/9/92	160				
6/9/92	161				
7/9/92	162	8.00	8.2	7.6	8.3
	162	12.00	7.8	7.6	7.9
	162	14.00	7.8	7.5	8.0
8/9/92	163	8.00	7.0	7.7	7.1
	163	12.00	7.2	7.9	7.4
	163	14.00	6.9	7.3	7.1
9/9/92	164	8.00	6.6	7.2	6.8
	164	12.00	6.7	7.8	6.8
	164	14.00	7.0	8.1	7.1
10/9/92	165				
11/9/92	166				
12/9/92	167				
13/9/92	168				
14/9/92	169	8.00	7.2	7.7	7.3
	169	12.00	6.7	7.4	6.9
	169	14.00	6.8	7.7	7.1
15/9/92	170	8.00	5.8	7.3	6.2
	170	12.00	6.2	7.6	6.6
	170	14.00	6.9	8.1	7.2
16/9/92	171	8.00	5.4	7.3	5.6
	171	12.00	9.2	7.4	8.2
	171	14.00	7.3	7.6	7.4

TABLA Nro. 6 - SISTEMA "J.M.COBO"
pH (cont.)

FECHA	DIA OPER.	HORA	pH CRUDO	pH EFL.	pH LAG.
17/09/92	172	9.00	6.1	6.8	6.4
	172	12.00	6.2	7.1	6.6
	172	14.00	7.6	8.0	7.6
	172	16.00			
22/09/92	177	8.00	6.0	7.3	6.2
	177	11.30	6.1	7.6	6.2
	177	14.30	8.2	7.9	8.3
	177	18.30			
25/09/92	180	8.00	6.8	7.2	6.9
	180	12.00	8.2	8.3	8.3
	180	14.00	7.1	7.4	7.2
	180	19.00			
28/09/92	183	8.30	6.1	6.5	6.2
	183	12.00	8.3	8.1	8.2
	183	14.00	7.2	7.7	7.3
	183	18.00			
29/09/92	184	8.30	5.8	6.9	6.0
	184	12.00	8.6	7.9	8.4
	184	13.30	7.6	7.6	7.5
	184	18.00			
30/09/92	185	8.00	6.9		6.7
	185	12.30	6.2		8.1
	185	14.30	6.6		7.3
	185				

TABLA Nro. 7 - SISTEMA "J.M.COBO"

pH

FECHA	DIA OPERATIVO	pH CRUDO PROMEDIO	pH EFLUENTE PROMEDIO	pH LAGUNA PROMEDIO
30/3/92	1	7.7	7.8	7.5
31/3/92	2	7.6	7.8	8.0
1/4/92	3	7.2	7.4	7.7
2/4/92	4	7.2	7.0	7.2
3/4/92	5	7.5	7.9	7.8
7/4/92	9	7.4	8.0	7.7
8/4/92	10	8.0	8.2	8.1
9/4/92	11	7.4	8.0	7.8
10/4/92	12	7.4	8.1	7.9
13/4/92	15	7.3	7.3	7.5
14/4/92	16	7.6	7.8	7.8
15/4/92	17	7.7	7.9	7.8
16/4/92	18	7.4	7.9	7.6
21/4/92	23	7.2	7.4	7.5
23/4/92	25	7.0	7.6	7.6
24/4/92	26	7.2	7.5	7.6
18/5/92	50	6.2	5.8	6.3
19/5/92	51	6.9	6.7	6.7
20/5/92	52	6.7	7.3	7.5
21/5/92	53	6.2	7.0	6.7
26/5/92	58	6.3	6.7	6.9
27/5/92	59	6.8	7.0	7.1
1/6/92	64	6.9	7.1	6.8
2/6/92	65	6.9	7.1	6.8
3/6/92	66	6.4	7.1	7.3
4/6/92	67	7.0	6.4	6.2
5/6/92	68	6.3	7.4	7.4
9/6/92	72	6.2	7.0	7.3
12/6/92	75	6.6	7.0	7.4
18/6/92	81	5.8	5.7	6.4
22/6/92	85	5.3	5.7	5.5
23/6/92	86	6.1	6.4	5.8
25/6/92	88	5.7	5.6	6.4
26/6/92	89	6.1	6.3	5.3
29/6/92	92	5.8	6.0	6.4
30/6/92	93	5.5	6.3	5.9
10/7/92	103	6.5	7.2	7.7
16/7/92	109	6.3	7.2	7.7
17/7/92	110	7.1	7.6	7.1
20/7/92	113	7.2	7.5	6.7

TABLA Nro. 7 - SISTEMA 'J.M.COBO'
pH (cont.)

FECHA	DIA OPERATIVO	pH CRUDO PROMEDIO	pH EFLUENTE PROMEDIO	pH LAGUNA PROMEDIO
22/7/92	115	7.6	7.6	7.6
23/7/92	116	6.9	7.7	7.4
24/7/92	117	7.2	7.3	7.1
27/7/92	120	7.5	7.9	7.4
28/7/92	121	6.4	6.5	6.3
29/7/92	122	6.4	8.1	7.7
30/7/92	123	6.0	6.5	6.9
31/7/92	124	6.8	7.4	7.5
3/8/92	127	7.7	7.7	7.9
4/8/92	128	6.7	7.4	7.8
5/8/92	129	7.0	7.1	7.3
6/8/92	130	7.0	7.9	7.4
10/8/92	134	5.9	7.8	6.6
11/8/92	135	7.0	7.8	7.2
12/8/92	136	7.3	7.8	7.3
13/8/92	137	5.6	7.3	5.9
14/8/92	138	6.2	7.5	6.3
18/8/92	142	6.4	7.3	6.4
19/8/92	143	6.0	7.4	6.6
20/8/92	144	6.2	7.5	6.4
21/8/92	145	6.3	7.4	6.6
24/8/92	148	6.8	8.3	7.4
25/8/92	149	7.1	7.9	7.3
26/8/92	150	6.8	7.4	6.9
27/8/92	151	7.2	7.3	7.4
2/9/92	157	6.2	6.9	6.4
3/9/92	158	5.9	7.2	6.1
4/9/92	159	7.2	7.1	7.4
7/9/92	162	7.9	7.6	8.1
8/9/92	163	7.0	7.6	7.2
9/9/92	164	6.8	7.7	6.9
14/9/92	169	6.9	7.6	7.1
15/9/92	170	6.3	7.7	6.7
16/9/92	171	7.3	7.4	7.1

TABLA Nro. 7 - SISTEMA "J.M.COBO"
pH (cont.)

FECHA	DIA OPERATIVO	pH CRUDO PROMEDIO	pH EFLUENTE PROMEDIO	pH LAGUNA PROMEDIO
17/09/92	172	6.6	7.3	6.9
22/09/92	177	6.8	7.6	6.9
25/09/92	180	7.4	7.6	7.5
28/09/92	183	7.2	7.4	7.2
29/09/92	184	7.3	7.5	7.3
30/09/92	185	6.6		7.4
01/10/92	186			
02/10/92	187			
05/10/92	190			
06/10/92	191			
07/10/92	192			
08/10/92	193			
09/10/92	194			
13/10/92	198			
14/10/92	199			
15/10/92	200			
19/10/92	204			
20/10/92	205			
21/10/92	206			
22/10/92	207			

TABLA Nro. 8 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
30/3/92	1	8.00	2.0	2.7
	1	18.00	5.2	5.1
31/3/92	2	8.00	1.7	3.0
	2	12.00	3.5	3.2
	2	14.00	5.7	9.0
	2	18.00	3.9	5.8
1/4/92	3	8.00	1.6	1.7
	3	12.00	3.1	2.7
	3	14.00	2.2	5.6
	3	18.00	2.6	2.7
2/4/92	4	8.00	3.1	3.6
	4	12.00	3.5	3.2
	4	14.00	3.1	2.6
	4	18.00	2.9	1.8
3/4/92	5	8.00	3.6	3.4
	5	12.00	3.1	2.9
	5	14.00	5.5	3.2
4/4/92	6			
5/4/92	7			
6/4/92	8			
7/4/92	9	8.00	5.2	3.7
	9	12.00	3.8	3.2
	9	14.00	8.4	7.5
8/4/92	10	8.00	2.3	6.0
	10	12.00	3.2	5.3
	10	14.00		
	10	18.00	6.5	6.7
9/4/92	11	8.00	6.8	4.8
	11	12.00	4.9	4.1
	11	14.00	9.0	10.2
	11	18.00	5.9	6.1
10/4/92	12	8.00	5.3	2.8
	12	12.00	4.7	2.4
	12	14.00	4.4	2.3
	12	18.00	3.5	2.9
11/4/92	13			
12/4/92	14			
13/4/92	15	8.00	6.0	7.1
	15	12.00	5.1	8.5
	15	14.00	3.9	5.2

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
14/4/92	16	8.00	1.5	2.5
	16	18.00	3.9	2.9
15/4/92	17	8.00	2.5	2.0
	17	12.00	2.1	2.3
	17	14.00	3.2	2.1
	17	18.00	2.9	2.2
16/4/92	18	8.00	2.8	3.0
	18	12.00	2.5	2.9
	18	14.00	3.0	2.5
	18	18.00	2.6	2.1
17/4/92	19			
18/4/92	20			
19/4/92	21			
20/4/92	22			
21/4/92	23	8.00	4.4	3.0
	23	12.00	3.8	2.1
	23	14.00	5.8	3.9
	23	18.00	4.2	3.1
22/4/92	24			
23/4/92	25	8.00	3.5	2.6
	25	12.00	2.9	2.7
	25	14.00	6.5	2.7
	25	18.00	4.8	2.9
24/4/92	26	8.00	3.2	1.6
	26	12.00	2.7	1.5
	26	14.00	2.1	1.8
	26	18.00	2.3	2.0
25/4/92	27			
26/4/92/2	28			
27/4/92	29			
28/4/92	30			
29/4/92	31			
30/4/92	32			

TABLA Nro. 8 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
1/5/92	33			
2/5/92	34			
3/5/92	35			
4/5/92	36			
5/5/92	37			
6/5/92	38			
7/5/92	39			
8/5/92	40			
9/5/92	41			
10/5/92	42			
11/5/92	43			
12/5/92	44			
13/5/92	45			
14/5/92	46			
15/5/92	47			
16/5/92	48			
17/5/92	49			
18/5/92	50	9.00	3.9	4.3
	50	12.00	5.5	6.5
	50	14.00	4.0	3.9
19/5/92	51	8.00	2.9	2.3
	51	12.00	5.3	7.2
	51	14.00	2.7	3.3
20/5/92	52	9.00	2.1	3.2
	52	12.00	4.6	3.9
	52	14.00	2.8	2.4
21/5/92	53	8.00	2.3	2.9
	53	12.00	3.9	4.6
	53	14.00	2.8	2.3
22/5/92	54			
23/5/92	55			
24/5/92	56			
25/5/92	57			
26/5/92	58	8.00	4.8	4.4
	58	12.00	6.3	5.9
	58	14.00	2.9	2.6
27/5/92	59	8.00	4.3	3.8
	59	12.00	6.9	8.4
	59	14.00	4.8	5.3
28/5/92	60			
29/5/92	61			
30/5/92	62			
31/5/92	63			
1/6/92	64	8.00	3.5	1.9
	64	12.00	5.4	2.6
	64	14.00	3.1	2.4
2/6/92	65	8.00	2.5	2.9
	65	12.00	5.3	3.3
	65	14.00	2.6	2.1

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
3/6/92	66	8.00	3.3	4.9
	66	12.00	4.9	3.1
	66	14.00	3.1	3.0
4/6/92	67	8.00	2.3	1.4
	67	12.00	5.9	6.5
	67	14.00	2.6	2.4
5/6/92	68	8.00	2.3	2.6
	68	12.00	4.2	3.7
	68	14.00	2.9	2.6
6/6/92	69			
7/6/92	70			
8/6/92	71			
9/6/92	72	8.00	2.5	2.9
	72	12.00	3.9	5.7
	72	14.00	2.3	2.6
10/6/92	73			
11/6/92	74			
12/6/92	75	8.00	2.3	2.6
	75	12.00	4.8	3.9
	75	14.00	2.9	2.5
13/6/92	76			
14/6/92	77			
15/6/92	78			
16/6/92	79			
17/6/92	80			
18/6/92	81	8.00	6.8	7.5
	81	12.00	5.9	7.9
	81	14.00	7.7	8.4
19/6/92	82			
20/6/92	83			
21/6/92	84			
22/6/92	85	8.00	8.7	7.4
	85	12.00	8.5	7.2
	85	14.00	9.0	6.9
23/6/92	86	8.00	6.8	6.4
	86	12.00	5.9	6.7
	86	14.00	5.4	7.1
24/6/92	87			
25/6/92	88	8.00	6.7	8.7
	88	12.00	6.6	9.2
	88	14.00	7.5	8.5
26/6/92	89	8.00	3.9	7.1
	89	12.00	4.7	6.6
	89	14.00	3.1	6.3
27/6/92	90			
28/6/92	91			
29/6/92	92	8.00	8.6	7.3
	92	12.00	7.9	6.1
	92	14.00	6.8	5.9
30/6/92	93	8.00	7.4	7.6
	93	12.00	8.9	7.1
	93	14.00	9.5	9.8

TABLA Nro. 8 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
1/7/92	94			
2/7/92	95			
3/7/92	96			
5/7/92	98			
6/7/92	99			
7/7/92	100			
8/7/92	101			
9/7/92	102			
10/7/92	103	8.00	4.8	3.7
	103	12.00	3.7	2.9
	103	14.00	3.5	4.6
11/7/92	104			
12/7/92	105			
13/7/92	106			
14/7/92	107			
15/7/92	108			
16/7/92	109	8.00	4.7	2.8
	109	12.00	3.9	3.4
	109	14.00	4.2	3.0
17/7/92	110	8.00	4.5	2.7
	110	12.00	6.1	3.9
	110	14.00	3.9	3.9
18/7/92	111			
19/7/92	112			
20/7/92	113	8.00	3.1	3.9
	113	12.00	2.9	4.2
	113	14.00	4.4	2.7
21/7/92	114			
22/7/92	115	8.00	2.6	2.3
	115	12.00	3.1	3.1
	115	14.00	2.7	3.2
23/7/92	116	8.00	3.9	2.8
	116	12.00	2.7	3.1
	116	14.00	2.6	2.7

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
23/7/92	116	8.00	3.9	2.8
	116	12.00	2.7	3.1
	116	14.00	2.6	2.7
	117	12.00	1.6	2.7
	117	14.00	3.1	2.6
25/7/92	118			
26/7/92	119			
27/7/92	120	8.00	3.2	3.2
	120	12.00	4.5	2.8
	120	14.00	3.6	3.3
28/7/92	121	8.00	7.4	11.0
	121	12.00	9.8	
	121	14.00	6.7	12.0
29/7/92	122	8.00	9.7	10.2
	122	12.00		
	122	14.00	9.7	11.0
30/7/92	123	8.00	8.9	6.3
	123	12.00	6.3	5.7
	123	14.00	7.9	5.9
31/7/92	124	8.00	6.9	7.3
	124	12.00	6.4	6.8
	124	14.00	7.5	6.9
1/8/92	125			
2/8/92	126			
3/8/92	127	8.00	5.1	6.2
	127	12.00	5.2	5.7
	127	14.00	4.9	5.3
4/8/92	128	8.00	6.3	7.4
	128	12.00	5.2	6.3
	128	14.00	5.1	6.4
5/8/92	129	8.00	7.1	6.3
	129	12.00	9.8	9.2
	129	14.00	7.5	8.5

TABLA Nro. 8 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
6/8/92	130	9.00	5.8	5.9
	130	12.00	6.2	6.8
	130	14.00	7.5	8.6
	130	16.00		
7/8/92	131			
8/8/92	132			
9/8/92	133			
10/8/92	134	8.30	5.9	6.9
	134	12.00	6.3	7.6
	134	14.30	8.4	9.4
	134	18.30		
11/8/92	135	8.00	6.9	6.3
	135	12.00	8.2	5.9
	135	14.00	6.3	6.7
	135	18.00		
12/8/92	136	9.00	5.8	5.9
	136	11.30	7.9	6.8
	136	14.00	6.7	5.7
	136	18.30		
13/8/92	137	9.00	6.3	5.6
	137	11.30	6.9	6.3
	137	13.30		7.5
	137	18.00		
14/8/92	138	8.30	5.3	6.8
	138	12.00	6.2	7.3
	138	14.00	7.1	8.6
	138	18.30		
15/8/92	139			
16/8/92	140			
17/8/92	141			
18/8/92	142	9.30	5.7	4.4
	142	12.00	6.9	4.8
	142	13.30	7.3	6.0
	142	17.30		

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
19/8/92	143	9.00	7.4	5.3
	143	12.00	6.2	6.1
	143	13.30	7.9	4.8
	143	18.00		
20/8/92	144	8.30	5.9	5.9
	144	11.30	7.5	7.8
	144	14.00		
	144	18.00		
21/8/92	145	8.30	4.8	5.6
	145	12.00	3.8	7.8
	145	14.00	6.7	9.5
	145	18.30		
22/8/92	146			
23/8/92	147			
24/8/92	148	9.30	6.3	4.3
	148	12.30	7.9	5.5
	148	14.00		6.9
	148	17.30		
25/8/92	149	9.00	7.5	6.5
	149	11.30	6.2	5.9
	149	14.00		6.8
	149	18.00		
26/8/92	150	8.30	6.9	5.9
	150	11.30	5.8	5.2
	150	14.00	8.6	6.7
	150	17.30		
27/8/92	151	9.00	8.6	5.3
	151	12.00	7.5	4.8
	151	13.30		5.2
	151	18.00		
28/8/92	152			
29/8/92	153			
30/8/92	154			
31/8/92	155			

TABLA Nro. 8 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
1/9/92	156			
2/9/92	157	9.00	5.8	6.5
	157	11.30	9.1	7.6
	157	14.00	7.8	7.4
	157	18.00		
3/9/92	158	9.30	7.3	5.8
	158	12.00	8.6	7.7
	158	13.30	9.1	6.6
	158	18.30		
4/9/92	159	9.30	4.9	3.9
	159	12.00	6.1	4.3
	159	14.30	4.4	3.6
	159	17.30		
5/9/92	160			
6/9/92	161			
7/9/92	162	9.00	4.7	5.3
	162	11.30	3.9	4.6
	162	14.00	4.2	4.5
	162	18.00		
8/9/92	163	8.30	6.1	4.8
	163	11.30	7.2	5.7
	163	14.00	4.9	4.6
	163	17.30		
9/9/92	164	9.30	7.1	4.3
	164	11.30	6.7	4.4
	164	14.30	6.9	3.8
	164	18.00		
10/9/92	165			
11/9/92	166			
13/9/92	168			
14/9/92	169	9.30	7.5	3.5
	169	12.00	6.3	4.3
	169	13.30	5.9	5.1
	169	17.00		

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
15/9/92	170	9.30	5.1	4.1
	170	12.00	3.8	3.2
	170	14.00	5.7	4.1
	170	17.30		
16/9/92	171	9.30	4.4	3.8
	171	12.00	4.9	3.7
	171	14.30	5.1	4.2
	171	18.00		

TABLA Nro. 8 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
17/09/92	172	9.00	3.9	3.2
	172	12.00	3.8	3.8
	172	14.00	4.1	2.9
	172	16.00		
22/09/92	177	8.00	3.2	3.9
	177	11.30	3.8	4.7
	177	14.30	3.1	3.6
	177	16.30		
25/09/92	180	8.00	2.8	3.9
	180	12.00	4.5	4.2
	180	14.00	3.6	3.7
	180	19.00		
28/09/92	183	8.30	3.5	3.2
	183	12.00	4.7	6.4
	183	14.00	3.9	3.5
	183	18.00		
29/09/92	184	8.30	3.1	3.5
	184	12.00	3.9	5.4
	184	13.30	2.6	3.2
	184	18.00		
30/09/92	185	8.00		2.3
	185	12.30		1.5
	185	14.30		2.1
	185			

TABLA Nro. 9 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	OD LAGUNA MEDIO
30/3/92	1	3.9
31/3/92	2	5.3
1/4/92	3	3.2
2/4/92	4	2.8
3/4/92	5	3.2
7/4/92	9	4.8
8/4/92	10	6.0
9/4/92	11	6.3
10/4/92	12	2.6
13/4/92	15	6.9
14/4/92	16	2.7
15/4/92	17	2.2
16/4/92	18	2.6
21/4/92	23	3.0
23/4/92	25	2.7
24/4/92	26	1.7
18/5/92	50	4.9
19/5/92	51	4.3
20/5/92	52	3.2
21/5/92	53	3.3
26/5/92	58	4.3
27/5/92	59	5.8
1/6/92	64	2.3
2/6/92	65	2.8
3/6/92	66	3.7
4/6/92	67	3.4
5/6/92	68	3.0
9/6/92	72	3.7
12/6/92	75	3.0
13/6/92	81	7.9
22/6/92	85	7.2
23/6/92	86	6.7
25/6/92	88	8.8
26/6/92	89	6.7
29/6/92	92	6.4
30/6/92	93	8.2
10/7/92	103	3.7
16/7/92	109	3.1

TABLA Nro. 9 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	OD LAGUNA MEDIO
17/7/92	110	3.5
20/7/92	113	3.6
22/7/92	115	2.9
23/7/92	116	2.9
23/7/92	116	2.8
27/7/92	120	3.1
28/7/92	121	11.5
29/7/92	122	10.6
30/7/92	123	6.0
31/7/92	124	7.0
3/8/92	127	5.7
4/8/92	128	6.7
5/8/92	129	8.0
6/8/92	130	6.5
10/8/92	134	6.9
11/8/92	135	7.1
12/8/92	136	6.8
13/8/92	137	6.6
14/8/92	138	6.2
18/8/92	142	6.6
19/8/92	143	7.2
20/8/92	144	6.7
21/8/92	145	5.1
24/8/92	148	7.1
25/8/92	149	6.9
26/8/92	150	7.1
27/8/92	151	8.1
2/9/92	157	7.6
3/9/92	158	8.3
4/9/92	159	5.1
7/9/92	162	4.3
8/9/92	163	6.1
9/9/92	164	6.9
14/9/92	169	6.6
15/9/92	170	4.9
16/9/92	171	4.8

TABLA Nro. 9 - SISTEMA "J. M. COBO"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	OD LAGUNA MEDIO
17/09/92	172	3.3
22/09/92	177	4.1
25/09/92	180	3.9
28/09/92	183	4.4
29/09/92	184	4.0
30/09/92	185	2.0
01/10/92	186	
02/10/92	187	
05/10/92	190	
06/10/92	191	
07/10/92	192	
08/10/92	193	
09/10/92	194	
13/10/92	198	
14/10/92	199	
15/10/92	200	
19/10/92	204	
20/10/92	205	
21/10/92	206	
22/10/92	207	

SISTEMA J. M. COBO

TABLA N° 10 - DBO5 TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
14/5/92	381	114
9/6/92	110	31
22/6/92	61	23
25/6/92	60	22
27/7/92	163	138
28/7/92	122	84
29/7/92	139	67
30/7/92	139	97
31/7/92	155	126
1/8/92	113	63
2/8/92	97	67
3/8/92	101	86
13/8/92	83	55
20/8/92	193	155
24/8/92	197	128
17/9/92	107	
24/9/92	97	52
2/10/92	54	44
6/10/92	78	
10/10/92	104	63
14/10/92	72	56

TABLA N° 11 - DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
14/5/92	190	97
9/6/92	88	30
22/6/92	49	21
25/6/92	47	20
29/6/92	59	39
7/7/92	102	77
25/7/92	177	130
13/8/92	65	42
20/8/92	153	122
24/8/92	108	87
24/9/92	59	33
2/10/92	39	27
6/10/92	72	30
10/10/92	69	57
14/10/92	69	50
29/10/92	103	85

SISTEMA J. M. COBO

TABLA N° 12 - DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
23/3/92	744	457
14/5/92	512	
22/6/92	87	69
25/6/92	96	70
29/6/92	118	85
7/7/92	142	102
27/7/92	195	158
28/7/92	154	112
29/7/92	162	98
30/7/92	174	135
31/7/92	183	162
1/8/92	138	100
2/8/92	128	104
3/8/92	175	154
13/8/92	120	84
20/8/92	332	212
17/9/92	180	
24/9/92	130	84
6/10/92	156	135
10/10/92	245	173
14/10/92	105	100
22/10/92	103	51
29/10/92	150	114

TABLA N° 13 - OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
30/3/92	30.0	27.0
31/3/92	31.0	27.0
1/4/92	33.0	11.0
2/4/92	30.0	13.0
3/4/92	36.0	31.0
7/4/92	28.0	15.0
13/4/92	19.0	16.0
14/4/92	19.4	15.0
15/4/92	18.0	17.0
16/4/92	19.0	16.0
21/4/92	19.4	19.0
23/4/92	18.5	16.0

TABLA N° 14 - SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
7/4/92	34	20
9/4/92	26	21
21/4/92	16	12
29/6/92	35	26
17/9/92	52	39
24/9/92	43	28
2/10/92	9	7
6/10/92	36	53
10/10/92	88	66
14/10/92	79	110
18/10/92	86	35
22/10/92	64	72
29/10/92	160	148

SISTEMA J. M. COBO

TABLA N° 15 - SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
30/3/92	1.0	ND	1.5	ND
31/3/92	0.1	ND	0.2	0.1
1/4/92	0.3	ND	0.4	0.1
2/4/92	0.7	ND	1.0	0.1
3/4/92	0.5	ND	1.0	0.1
7/4/92	0.2	ND	0.3	0.1
8/4/92	0.1	ND		
10/4/92			0.5	0.2
13/4/92	0.2	ND	0.3	0.1
14/4/92			0.1	ND
16/4/92			0.1	ND
23/4/92	0.2	0.1	0.5	0.1
16/5/92			0.2	0.1
19/5/92	0.1	0.1	0.3	0.1
26/5/92	0.2	ND	0.3	0.1
27/5/92	0.1	ND	0.1	ND
28/5/92	0.2	ND	0.2	ND
29/5/92	0.1	ND	0.1	ND
2/6/92	0.2	ND	0.2	ND
3/6/92	0.2	0.1	0.3	0.1
4/6/92	ND	ND	0.1	ND

NOTAS: * ND significa no detectado, límite de detección: 0,05 ml/L.
 * Los espacios en blanco corresponden a mediciones no efectuadas o pares de datos incompletos por problemas operativos.

TABLA N° 15 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/L)		2 HORAS (ml/L)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
5/6/92	0.1	ND	0.1	ND
9/6/92	0.1	ND	0.2	ND
10/6/92	ND	ND	0.1	ND
12/6/92	ND	ND	0.1	ND
18/6/92	0.1	ND	0.3	0.1
22/6/92	ND	ND	0.1	0.1
23/6/92	0.3	0.1	0.3	0.1
25/6/92	0.1	0.1	0.2	0.2
26/6/92	0.1	ND	0.2	0.1
29/6/92	ND	ND	0.1	ND
30/6/92	0.1	ND	0.2	0.1
10/7/92	0.2	ND	0.2	ND
16/7/92	0.1	ND	0.2	ND
17/7/92	0.2	ND	0.2	0.1
20/7/92	0.1	ND	0.2	ND
22/7/92	ND	0.1	0.1	0.1
28/7/92	0.1	ND	0.1	ND
1/10/92	0.1	ND	0.2	0.2
2/10/92	0.1	0.1	0.3	0.3
5/10/92	0.1	0.1	0.3	0.3
6/10/92	0.2	0.2	0.3	0.3
7/10/92	0.1	0.1	0.3	0.3
8/10/92	0.1	0.1	0.2	0.2
9/10/92	0.1	0.1	0.3	0.3
13/10/92	0.1	0.1	0.3	0.3
14/10/92	0.1	0.1	0.2	0.2
15/10/92			0.1	0.1
19/10/92			0.1	0.1
20/10/92	0.1		0.1	0.1
21/10/92	0.1		0.2	0.2

NOTAS: * ND significa no detectado, límite de detección: 0,05 ml/L.

* Los espacios en blanco corresponden a mediciones no efectuadas o pares de datos incompletos por problemas operativos

SISTEMA J. M. COBO

TABLA N° 16 - NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
25/6/92	26.32	25.76
29/6/92	10.64	10.64
7/7/92	32.48	29.51
25/7/92	28.23	22.96
13/8/92	8.90	5.68
20/8/92	16.82	11.16
24/8/92	16.20	9.00
3/9/92	16.96	10.64
17/9/92	22.40	12.24
24/9/92	14.00	8.96
2/10/92	1.20	1.20
6/10/92	3.20	1.60
10/10/92	1.20	1.80
14/10/92	1.10	0.40
18/10/92	0.70	0.40
29/10/92	0.80	0.80

TABLA N° 17 - NITROGENO AMONIAICAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
23/3/92	10.00	2.34
26/3/92	10.08	3.36
7/4/92	10.08	4.48
9/4/92	16.08	3.36
29/6/92	2.24	1.12
7/7/92	26.88	2.50
20/8/92	4.16	3.02
24/8/92	4.48	1.68
3/9/92	8.96	7.84
17/9/92	8.96	6.72
24/9/92	7.72	5.16
2/10/92	0.60	0.60
6/10/92	1.60	0.80
14/10/92	0.50	0.20
18/10/92	0.30	0.20
22/10/92	0.20	0.10
29/10/92	0.40	0.40

SISTEMA J. M. COBO

TABLA Nº 18 - NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/4/92	0.50	0.03
2/4/92	0.03	0.03
3/4/92	0.50	0.03
7/4/92	0.03	0.03
8/4/92	0.03	0.03
9/4/92	0.03	0.03
10/4/92	0.03	0.03
13/4/92	0.25	0.05
14/4/92	0.50	0.05
21/4/92	0.25	0.10
25/6/92	0.01	0.01
29/6/92	2.00	0.13
7/7/92	4.00	0.30
25/7/92	0.03	0.01
13/8/92	3.00	0.20
20/8/92	1.25	0.25
3/9/92	4.00	0.70
17/9/92	2.00	0.50
24/9/92	0.30	0.20
22/10/92	0.20	0.40

SISTEMA J. M. COBO

TABLA N° 19 - FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
20/8/92	32.00	20.00
24/8/92	20.00	4.00
17/9/92	17.54	7.00
24/9/92	10.50	6.50
2/10/92	23.60	23.50
6/10/92	33.00	30.50
10/10/92	23.40	30.40
14/10/92	35.10	28.00
29/10/92	4.70	8.30

TABLA N° 20 - FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
23/3/92	9.00	0.30
26/3/92	5.00	0.80
7/4/92	7.00	2.00
9/4/92	8.00	0.20
21/4/92	10.00	10.00
23/4/92	11.00	8.00
29/6/92	9.70	9.09
7/7/92	2.50	2.50
25/7/92	1.02	0.49
13/8/92	12.28	9.09
20/8/92	9.09	5.28
24/8/92	2.50	2.50
3/9/92	7.00	6.00
17/9/92	8.26	6.00
24/9/92	8.50	4.30
2/10/92	5.00	5.00
6/10/92	14.00	13.00
10/10/92	10.00	13.00
14/10/92	15.00	12.00
18/10/92	4.00	14.00
22/10/92	3.00	1.00
29/10/92	1.00	6.00

SISTEMA J. M. COBO

TABLA N° 21 - GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
29/6/92	40	24
7/7/92	8	4
25/7/92	51	32
13/8/92	46	24
20/8/92	41	22
24/8/92	63	39

TABLA N° 22 - ARSENICO

FECHA	CRUDO (µg/l)	EFLUENTE (µg/l)
23/3/92	94	9
26/3/92	17	9
7/4/92	41	9
9/4/92	94	17
21/4/92	94	70
25/6/92	110	50
29/6/92	100	90
7/7/92	60	20
25/7/92	120	40
13/8/92	50	30
20/8/92	100	30
24/8/92	70	20

TABLA N° 23 - MICROORGANISMOS INDICADORES

FECHA	PARAMETRO (NMP/100 ml)					
	COLITOTALES		COLIFECALES		STREPTOCOCCUS FAECALIS	
	ENTRADA	SALIDA	ENTRADA	SALIDA	ENTRADA	SALIDA
14/5/92	6.0E+05	4.5E+04				
21/5/92	7.4E+05	5.5E+04				
28/5/92	5.7E+05	3.3E+04				
9/6/92	8.0E+05	5.5E+04				
22/6/92	1.4E+08	1.5E+07				
25/6/92	6.7E+07	1.4E+07				
29/6/92	2.8E+08	3.5E+06				
7/7/92	3.7E+06	4.7E+05				
25/7/92	3.5E+07	1.9E+07				
13/8/92	1.9E+07	3.6E+06				
20/8/92	2.0E+07	3.8E+06				
24/8/92	6.9E+06	2.4E+06				
3/9/92	1.2E+08	4.5E+07				
17/9/92	9.2E+07	5.4E+06				
24/9/92	9.4E+06	7.1E+05				
2/10/92	1.6E+07	6.0E+06				
6/10/92	2.9E+07	1.7E+06				
10/10/92	1.3E+07	6.1E+05				
14/10/92	2.2E+07	1.3E+06				
18/10/92	2.0E+06	1.3E+05				
22/10/92	1.2E+07	5.2E+05				
29/10/92	9.0E+06	1.5E+06				
			5.1E+06	4.1E+06	4.5E+04	1.0E+04
			1.8E+07	6.4E+05	1.5E+04	1.0E+04
			9.6E+06	9.3E+05	2.7E+06	2.7E+05
			4.8E+05	2.3E+04	1.4E+05	6.0E+04
			1.4E+06	6.6E+05	3.0E+04	1.0E+04
			1.0E+07	8.8E+05	1.5E+06	1.7E+05
			1.5E+06	6.1E+05	2.5E+04	5.5E+03
			1.3E+06	7.5E+05	2.0E+04	1.0E+04
			2.6E+07	1.0E+07		
			6.4E+06	9.5E+05		
			1.1E+06	6.9E+05		
			1.5E+06	5.4E+05		
			2.6E+06	1.5E+05		
			1.2E+06	5.4E+05		
			1.9E+06	1.2E+05		
			1.8E+06	1.2E+04		
			1.1E+06	4.7E+04		
			8.5E+05	1.5E+05		

SISTEMA J. M. COBO

TABLA N° 24 - REMOCIONES DE DBO5 TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
14/5/92	381	114	70.1
9/6/92	110	31	71.8
(a)	61	23	62.3
(b)	141	97	31.2
(c)	117	86	26.5
13/8/92	83	55	33.7
(d)	195	142	27.2
24/9/92	97	52	46.4
2/10/92	54	44	18.5
10/10/92	104	63	39.4
14/10/92	72	56	22.2

NOTAS: (a) promedio días 22 y 25/6/92
 (b) promedio días 27 - 30/7/92
 (c) promedio días 31/7 - 3/8/92
 (d) promedio días 20 y 24/8/92

TABLA N° 25 - REMOCIONES DE DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
14/5/92	190	97	48.9
9/6/92	88	30	65.9
(a)	48	21	56.3
29/6/92	59	39	33.9
7/7/92	102	77	24.5
25/7/92	177	130	26.6
13/8/92	65	42	35.4
(b)	131	105	19.8
24/9/92	59	33	44.1
2/10/92	39	27	30.8
6/10/92	72	30	58.3
10/10/92	69	57	17.4
14/10/92	69	50	27.5
29/10/92	103	85	17.5

NOTAS: (a) promedio días 22 y 25/6/92
 (b) promedio días 20 y 24/8/92

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TABLA N° 26 - REMOCIONES DE DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
23/3/92	744	457	38.6
(a)	92	70	23.9
29/6/92	118	85	28.0
7/7/92	142	102	28.2
(b)	171	126	26.3
(c)	156	130	16.7
13/8/92	120	84	30.0
20/8/92	332	212	36.1
24/9/92	130	84	35.4
6/10/92	156	135	13.5
10/10/92	245	173	29.4
14/10/92	105	100	4.8
22/10/92	103	51	50.5
29/10/92	150	114	24.0

NOTAS: (a) promedio días 22 y 25/6/92
 (b) promedio días 27 - 30/7/92
 (c) promedio días 31 - 3/8/92

TABLA N° 27 - REMOCIONES DE OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
(a)	30.5	27.0	11.5
(b)	33.0	18.3	44.5
7/4/92	28.0	15.0	46.4
(c)	19.2	15.5	19.3
(d)	18.5	16.5	10.8
(e)	19.0	17.5	7.9

NOTAS: (a) promedio días 30 y 31/3/92
 (b) promedio días 1 a 3/4/92
 (c) promedio días 13 y 14/4/92
 (d) promedio días 15 y 16/4/92
 (e) promedio días 21 y 23/4/92

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TABLA N° 28 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
7/4/92	34	20	40.2
9/4/92	26	21	20.3
21/4/92	16	12	25.6
29/6/92	35	26	25.7
17/9/92	52	39	25.0
24/9/92	43	28	34.9
2/10/92	9	7	22.2
6/10/92	36	53	0.0
10/10/92	88	66	25.0
14/10/92	79	110	0.0
18/10/92	86	35	59.3
22/10/92	64	72	0.0
29/10/92	160	148	7.5

TABLA N° 29 - REMOCIONES DE SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO (ml/l)	EFLUENT (ml/l)	REMOCION (%)	CRUDO (ml/l)	EFLUENT (ml/l)	REMOCION (%)
(a)	0.5	ND	90.0	0.7	0.1	85.7
(b)	0.6	ND	91.7	1.0	0.1	90.0
(c)	0.2	ND	75.0	0.4	0.2	50.0
(d)	0.2	ND	75.0	0.2	0.1	50.0
23/4/92	0.2	0.1	50.0	0.5	0.1	80.0
(e)	0.2	0.1	50.0	0.3	0.1	66.7
(f)	0.2	ND	75.0	0.2	0.1	50.0
(g)	0.1	0.1	0.0	0.2	0.1	50.0
(h)	0.1	ND	50.0	0.1	ND	50.0
(i)	0.2	0.1	50.0	0.2	0.1	50.0
(j)	0.1	0.1	0.0	0.2	0.1	50.0
(k)	0.1	ND	50.0	0.2	0.1	50.0
10/7/92	0.2	ND	75.0	0.2	ND	75.0
(l)	0.2	ND	75.0	0.2	0.1	50.0
(m)	0.1	0.1	0.0	0.2	0.1	50.0
28/7/92	0.1	ND	50.0	0.1	ND	50.0

NOTAS:

- (a) promedio días 30/3 a 1/4/92.
 (b) promedio días 2 y 3/4/92.
 (c) promedio días 7 a 10/4/92.
 (d) promedio días 13 a 16/4/92.
 (e) promedio días 18 y 19/5/92.
 (f) promedio días 26 a 29/5/92.
 (g) promedio días 2 a 5/6/92.
 (h) promedio días 9 a 12/6/92.
 (i) promedio días 18 a 23/6/92.
 (j) promedio días 25 y 26/6/92.
 (k) promedio días 29 y 30/6/92.
 (l) promedio días 16 y 17/7/92.
 (m) promedio días 20 y 22/7/92.

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TABLA N° 30 - REMOCIONES DE NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
25/6/92	26.32	25.76	2.1
29/6/92	10.64	10.64	0.0
7/7/92	32.48	29.51	9.1
25/7/92	28.23	22.96	18.7
13/8/92	8.90	5.68	36.2
(a)	16.51	10.08	38.9
3/9/92	16.96	10.64	37.3
17/9/92	22.40	12.24	45.4
24/9/92	14.00	8.96	36.0
2/10/92	1.20	1.20	0.0
6/10/92	3.20	1.60	50.0
10/10/92	1.20	1.80	0.0
14/10/92	1.10	0.40	63.6
18/10/92	0.70	0.40	42.9
29/10/92	0.80	0.80	0.0

NOTAS: (a) promedio días 20 y 24/8/92.

TABLA N° 31 - REMOCIONES DE NITROGENO AMONIACAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
(a)	10.04	2.85	71.6
(b)	13.08	3.92	70.0
29/6/92	2.24	1.12	50.0
7/7/92	26.88	2.50	90.7
(c)	4.32	2.35	45.6
3/9/92	8.96	7.84	12.5
17/9/92	8.96	6.72	25.0
24/9/92	7.72	5.16	33.2
2/10/92	0.60	0.60	0.0
6/10/92	1.60	0.80	50.0
14/10/92	0.50	0.20	60.0
18/10/92	0.30	0.20	33.3
22/10/92	0.20	0.10	50.0
29/10/92	0.40	0.40	0.0

NOTAS: (a) promedio de los días 23 y 26/3/92.

(b) promedio de los días 7 y 9/4/92.

(c) promedio de los días 20 y 24/8/92.

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TABLA N° 32 - REMOCIONES DE NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
(a)	0.34	0.03	91.2
(b)	0.03	0.03	0.0
(c)	0.38	0.05	86.8
21/4/92	0.25	0.10	60.0
25/6/92	0.01	0.01	0.0
29/6/92	2.00	0.13	93.5
7/7/92	4.00	0.30	92.5
25/7/92	0.03	0.01	66.7
13/8/92	3.00	0.20	93.3
20/8/92	1.25	0.25	80.0
3/9/92	4.00	0.70	82.5
17/9/92	2.00	0.50	75.0
24/9/92	0.30	0.20	33.3
22/10/92	0.20	0.40	0.0

NOTAS:

- (a) promedio de los días 1 a 3/4/92.
- (b) promedio de los días 7 a 10/4/92.
- (c) promedio de los días 13 y 14/4/92.

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TABLA N° 33 - REMOCIONES DE FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
20/8/92	32.00	20.00	37.5
24/8/92	20.00	4.00	80.0
17/9/92	17.54	7.00	60.1
24/9/92	10.50	6.50	38.1
2/10/92	23.60	23.50	0.4
6/10/92	33.00	30.50	7.6
10/10/92	23.40	30.40	0.0
14/10/92	35.10	28.00	20.2
29/10/92	4.70	8.30	0.0

TABLA N° 34 - REMOCIONES DE FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
(a)	7.00	0.55	92.1
(b)	7.50	1.10	85.3
(c)	10.50	9.00	14.3
29/6/92	9.70	9.09	6.3
7/7/92	2.50	2.50	0.0
25/7/92	1.02	0.49	52.0
13/8/92	12.28	9.09	26.0
(d)	5.80	3.89	32.9
3/9/92	7.00	6.00	14.3
17/9/92	8.26	6.00	27.4
24/9/92	8.50	4.30	49.4
2/10/92	5.00	5.00	0.0
6/10/92	14.00	13.00	7.1
10/10/92	10.00	13.00	0.0
14/10/92	15.00	12.00	20.0
18/10/92	4.00	14.00	0.0
22/10/92	3.00	1.00	66.7
29/10/92	1.00	6.00	0.0

NOTAS: (a) promedio de los días 23 y 26/3/92.
 (b) promedio de los días 7 y 9/4/92.
 (c) promedio de los días 21 y 23/4/92.
 (d) promedio de los días 20 y 24/8/92.

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TABLA N° 35 - REMOCIONES DE GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
29/6/92	40	24	40.0
7/7/92	8	4	50.0
25/7/92	51	32	37.3
13/8/92	46	24	47.8
(a)	52	31	40.4

NOTAS: (a) promedio días 20 y 24/8/92

TABLA N° 36 - REMOCIONES DE ARSENICO

FECHA	CRUDO ($\mu\text{g/l}$)	EFLUENTE ($\mu\text{g/l}$)	REMOCION PORCENTUAL
(a)	56	9	83.9
(b)	68	13	80.9
21/4/92	94	70	25.5
25/6/92	110	50	54.5
29/6/92	100	90	10.0
7/7/92	60	20	66.7
25/7/92	120	40	66.7
13/8/92	50	30	40.0
(c)	85	25	70.6

NOTAS: (a) promedio de los días 23 y 26/3/92.
 (b) promedio de los días 7 y 9/4/92.
 (c) promedio de los días 20 y 24/8/92.

TABLA N° 37 - REMOCIONES DE MICROORGANISMOS INDICADORES

FECHA	PARAMETRO			COLIFECALIS			STREPTOCOCCUS FAECALIS		
	COLITOTALES			COLIFECALIS			STREPTOCOCCUS FAECALIS		
	ENTRADA (NMP/100ml)	SALIDA (NMP/100)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)
14/5/92	6.0E+05	4.5E+04	92.5						
21/5/92	7.4E+05	5.5E+04	92.6						
28/5/92	5.7E+05	3.3E+04	94.2						
9/6/92	8.0E+05	5.5E+04	93.1						
(a)	1.0E+08	1.6E+07	84.0	1.2E+07	2.4E+06	80.0	3.0E+04	1.0E+04	66.7
29/6/92	2.8E+08	3.5E+06	98.8	9.6E+06	9.3E+05	90.3	2.7E+06	2.7E+05	90.0
7/7/92	3.7E+06	4.7E+05	87.3	4.8E+05	2.3E+04	95.2	1.4E+05	6.0E+04	57.1
25/7/92	3.5E+07	1.9E+07	45.7	1.4E+06	6.6E+05	52.9	3.0E+04	1.0E+04	66.7
13/8/92	1.9E+07	3.6E+06	81.1	1.0E+07	8.8E+05	91.2	1.5E+06	1.7E+05	88.7
(b)	1.3E+07	3.0E+06	76.9	1.4E+06	6.8E+05	51.4	2.3E+04	8.0E+03	65.2
3/9/92	1.2E+08	4.5E+07	62.5	2.6E+07	1.0E+07	61.5			
17/9/92	8.2E+07	5.4E+06	94.1	6.4E+06	9.5E+05	85.2			
24/9/92	9.4E+06	7.1E+05	92.4	1.1E+06	6.9E+05	37.3			
2/10/92	1.6E+07	8.0E+06	62.5	1.5E+06	5.4E+05	64.0			
6/10/92	2.8E+07	1.7E+06	94.1	2.6E+06	1.5E+05	94.2			
10/10/92	1.3E+07	6.1E+05	95.3	1.2E+06	5.4E+05	55.0			
14/10/92	2.2E+07	1.3E+06	94.1	1.9E+06	1.2E+05	93.7			
18/10/92	2.0E+06	1.3E+05	93.5	1.8E+06	1.2E+04	99.3			
22/10/92	1.2E+07	5.2E+05	95.7	1.1E+06	4.7E+04	95.7			
29/10/92	9.0E+06	1.5E+06	83.3	8.5E+05	1.5E+05	82.4			

NOTA (a) promedio de los días 22 y 25/6/92.
(b) promedio de los días 20 y 24/8/92.

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TABLA N° 38 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA AEREADA

FECHA	CRUDO (mg/l)	SALIDA LAGUNA AEREADA (mg/l)	REMOCION PORCENTUAL
02/10/92	54	45	16.7
06/10/92	78	50	35.9
10/10/92	104	110	0.0
14/10/92	72	80	0.0

TABLA N° 39 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA AEREADA

FECHA	CRUDO (mg/l)	SALIDA LAGUNA AEREADA (mg/l)	REMOCION PORCENTUAL
02/10/92	39	31	20.5
06/10/92	72	50	30.6
10/10/92	69	65	5.8
14/10/92	69	64	7.2
24/10/92	103	99	3.9

TABLA N° 40 - REMOCIONES DE DQO EN LA LAGUNA AEREADA

FECHA	CRUDO (mg/l)	SALIDA LAGUNA AEREADA (mg/l)	REMOCION PORCENTUAL
06/10/92	156	145	7.1
10/10/92	245	253	0.0
14/10/92	105	92	12.4
29/10/92	150	125	16.7

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**TABLA N° 41 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA AEREADA**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA AEREADA (mg/l)	REMOCION PORCENTUAL
02/10/92	9	11	0.0
06/10/92	36	41	0.0
10/10/92	88	74	15.9
14/10/92	79	90	0.0
18/10/92	86	84	2.3
29/10/92	160	159	0.6

**TABLA N° 42 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA AEREADA**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA AEREADA (mg/l)	REMOCION PORCENTUAL
02/10/92	1.20	1.40	0.0
06/10/92	3.20	3.20	0.0
10/10/92	1.20	2.30	0.0
14/10/92	1.10	0.70	36.4
18/10/92	0.70	0.60	14.3
29/10/92	0.80	0.80	0.0

**TABLA N° 43 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA AEREADA**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA AEREADA (mg/l)	REMOCION PORCENTUAL
06/10/92	33.00	35.00	0.0
10/10/92	23.40	25.70	0.0
14/10/92	35.10	34.00	3.1
29/10/92	4.70	9.50	0.0

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TABLA N° 44 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA AEREADA

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION		CRUDO	SALIDA LAG. REMOCION	
	(NMP/100ml)	AEREADA (NMP/100ml)	(%)	(NMP/100ml)	AEREADA (NMP/100ml)	(%)
02/10/92	1.6E+07	8.3E+06	48.1	1.5E+06	1.0E+06	33.3
06/10/92	2.9E+07	1.1E+07	62.1	2.6E+06	1.3E+06	50.0
10/10/92	1.3E+07	7.3E+06	43.8	1.2E+06	7.6E+05	36.7
14/10/92	2.2E+07	1.9E+07	13.6	1.9E+06	1.8E+06	5.3
18/10/92	2.0E+06	1.6E+06	20.0	1.8E+06	1.7E+05	90.6
29/10/92	9.0E+06	7.5E+06	16.7	8.5E+05	4.8E+05	43.5

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TABLA N° 45 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA FACULTATIVA

FECHA	ENTRADA LAG.FACULT. (mg/l)	SALIDA LAG.FACULT. (mg/l)	REMOCION PORCENTUAL
02/10/92	45	62	0.0
06/10/92	50	35	30.0
10/10/92	110	100	9.1
14/10/92	80	88	0.0
18/10/92	50	38	24.0

TABLA N° 46 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA FACULTATIVA

FECHA	ENTRADA LAG.FACULT. (mg/l)	SALIDA LAG.FACULT. (mg/l)	REMOCION PORCENTUAL
02/10/92	31	28	9.7
10/10/92	65	64	1.5
14/10/92	64	65	0.0
18/10/92	37	30	18.9
29/10/92	99	99	0.0

TABLA N° 47 - REMOCIONES DE DQO EN LA LAGUNA FACULTATIVA

FECHA	ENTRADA LAG.FACULT. (mg/l)	SALIDA LAG.FACULT. (mg/l)	REMOCION PORCENTUAL
06/10/92	145	138	4.8
10/10/92	253	273	0.0
14/10/92	92	111	0.0
18/10/92	145	109	24.8
29/10/92	125	105	16.0

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**TABLA N° 48 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA FACULTATIVA**

FECHA	ENTRADA LAG.FACULT. (mg/l)	SALIDA LAG.FACULT. (mg/l)	REMOCION PORCENTUAL
02/10/92	11	22	0.0
06/10/92	41	47	0.0
10/10/92	74	68	8.1
14/10/92	90	94	0.0
18/10/92	84	83	1.2
29/10/92	159	171	0.0

**TABLA N° 49 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA FACULTATIVA**

FECHA	ENTRADA LAG.FACULT. (mg/l)	SALIDA LAG.FACULT. (mg/l)	REMOCION PORCENTUAL
02/10/92	1.40	1.20	14.3
06/10/92	3.20	1.80	43.8
10/10/92	2.30	1.10	52.2
14/10/92	0.70	1.20	0.0
18/10/92	0.80	0.80	0.0
29/10/92	0.80	0.70	12.5

**TABLA N° 50 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA FACULTATIVA**

FECHA	ENTRADA LAG.FACULT. (mg/l)	SALIDA LAG.FACULT. (mg/l)	REMOCION PORCENTUAL
06/10/92	35.00	42.30	0.0
10/10/92	25.70	28.00	0.0
14/10/92	34.00	28.00	17.6
29/10/92	9.50	7.00	26.3

TABLA N° 51 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA FACULTATIVA

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	ENTRADA LAG. FACULT. (NMP/100ml)	SALIDA LAG. FACULT. (NMP/100ml)	REMOCION (%)	ENTRADA LAG. FACULT. (NMP/100ml)	SALIDA LAG. FACULT. (NMP/100ml)	REMOCION (%)
02/10/92	8.3E+06	7.1E+06	14.5	1.0E+06	8.5E+05	15.0
06/10/92	1.1E+07	9.2E+06	16.4	1.3E+06	9.8E+05	24.6
10/10/92	7.3E+06	6.4E+06	12.3	7.6E+05	6.4E+05	15.8
14/10/92	1.9E+07	1.4E+07	26.3	1.8E+06	1.4E+06	22.2
18/10/92	1.6E+06	9.0E+05	43.8	1.7E+05	1.0E+05	41.2
29/10/92	7.5E+06	6.8E+06	9.3	4.8E+05	5.3E+05	0.0

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TABLA N° 52 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA DE MADURACION

FECHA	ENTRADA LAG.MADUR. (mg/l)	SALIDA LAG.MADUR. (mg/l)	REMOCION PORCENTUAL
02/10/92	62	44	29.0
06/10/92	35	30	14.3
10/10/92	100	63	37.0
14/10/92	88	56	36.4
18/10/92	38	30	21.1

TABLA N° 53 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA DE MADURACION

FECHA	ENTRADA LAG.MADUR. (mg/l)	SALIDA LAG.MADUR. (mg/l)	REMOCION PORCENTUAL
02/10/92	28	27	3.6
10/10/92	64	57	10.9
14/10/92	65	50	23.1
18/10/92	30	29	3.3
29/10/92	99	85	14.1

TABLA N° 54 - REMOCIONES DE DQO EN LA LAGUNA DE MADURACION

FECHA	ENTRADA LAG.MADUR. (mg/l)	SALIDA LAG.MADUR. (mg/l)	REMOCION PORCENTUAL
06/10/92	138	135	2.2
10/10/92	273	173	36.6
14/10/92	111	100	9.9
18/10/92	109	75	31.2
29/10/92	105	114	0.0

SISTEMA J. M. COBO

**TABLA N° 55 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA DE MADURACION**

FECHA	ENTRADA LAG.MADUR. (mg/l)	SALIDA LAG.MADUR. (mg/l)	REMOCION PORCENTUAL
02/10/92	22	7	68.2
06/10/92	47	53	0.0
10/10/92	68	66	2.9
14/10/92	94	110	0.0
18/10/92	83	35	57.8
29/10/92	171	148	13.5

**TABLA N° 56 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA DE MADURACION**

FECHA	ENTRADA LAG.MADUR. (mg/l)	SALIDA LAG.MADUR. (mg/l)	REMOCION PORCENTUAL
02/10/92	1.20	1.20	0.0
06/10/92	1.80	1.60	11.1
10/10/92	1.10	1.80	0.0
14/10/92	1.20	0.40	66.7
18/10/92	0.80	0.40	50.0
29/10/92	0.70	0.80	0.0

**TABLA N° 57 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA DE MADURACION**

FECHA	ENTRADA LAG.MADUR. (mg/l)	SALIDA LAG.MADUR. (mg/l)	REMOCION PORCENTUAL
02/10/92	23.50	23.50	0.0
06/10/92	42.30	30.50	27.9
10/10/92	28.00	30.40	0.0
14/10/92	28.00	28.00	0.0
29/10/92	7.00	8.30	0.0

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TABLA N° 58 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA DE MADURACION

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	ENTRADA LAG.	SALIDA LAG.	REMOCION	ENTRADA LAG.	SALIDA LAG.	REMOCION
	MADUR. (NMP/100ml)	MADUR. (NMP/100ml)		MADUR. (NMP/100ml)	MADUR. (NMP/100ml)	
02/10/92	7.1E+06	6.0E+06	15.5	8.5E+05	5.4E+05	36.5
06/10/92	9.2E+06	1.7E+06	81.5	9.8E+05	1.5E+05	84.7
10/10/92	6.4E+06	6.1E+05	90.5	6.4E+05	5.4E+05	15.6
14/10/92	1.4E+07	1.3E+06	90.7	1.4E+06	1.2E+05	91.4
18/10/92	9.0E+05	1.3E+05	85.6	1.0E+06	1.2E+04	98.8
29/10/92	6.8E+06	1.5E+06	77.9	5.3E+05	1.5E+05	71.7

TABLA N° 59 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CINETICA
DE REMOCION DE MATERIA ORGANICA (K)
TEMPERATURA MEDIA = 14°C

FECHA	DIA	DBO5 mg/l	So/S	ln (So/S)
28/7/92	0	70	1.0000	0.0000
29/7/92	1	69	1.0145	0.0144
31/7/92	3	60	1.1667	0.1542
2/8/92	5	55	1.2727	0.2411
3/8/92	6	50	1.4000	0.3365
4/8/92	7	48	1.4583	0.3773
5/8/92	8	25	2.8000	1.0296
6/8/92	9	20	3.5000	1.2528

TABLA N° 60 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE DE CINETICA DE LA
REMOCION DE BACTERIAS COLIFORMES FECALIS TOTALES (K_bT)

FECHA	DIA	C. TOTALES NMP/100 ml	No/N	ln (No/N)
28/7/92	0	2.5E+06	1.0000	0.0000
29/7/92	1	3.4E+06	0.7353	-0.3075
31/7/92	3	3.3E+00	0.7576	-0.2776
2/8/92	5	1.8E+06	1.3889	0.3285
3/8/92	6	1.6E+06	1.5625	0.4463
4/8/92	7	1.6E+06	1.5625	0.4463
5/8/92	8	9.0E+05	2.7778	1.0217
6/8/92	9	1.2E+04	208.3333	5.3391

TABLA N° 61 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CINETICA
DE LA REMOCION DE LAS BACTERIAS COLIFORMES FECALIS (K_b)

FECHA	DIA	C. TOTALES NMP/100 ml	No/N	ln (No/N)
28/7/92	0	1.0E+05	1.0000	0.0000
29/7/92	1	1.1E+05	0.9091	-0.0953
31/7/92	3	8.9E+04	1.1236	0.1165
2/8/92	5	7.6E+04	1.3158	0.2744
3/8/92	6	7.8E+04	1.2821	0.2485
4/8/92	7	6.2E+04	1.6129	0.4780
5/8/92	8	6.6E+03	15.1515	2.7181
6/8/92	9	<2000	50.0000	3.9120

TABLA N° 62 - CONSTANTE DE DESOXIGENACION (K)

DBO5	DBO _u	k	TIPO DE MUESTRA
108	257	0.05	CRUDO
87	198	0.05	EFLUENTE

TABLA N° 63 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CINETICA
DE REMOCION DE MATERIA ORGANICA (K)
FECHA ENSAYO : 1/10 - 10/10/92
TEMPERATURA MEDIA : 17°C

DIA	DBO5 mg/l	So/S	ln (So/S)
1	62	1.0000	0.0000
2	59	1.0508	0.0496
3	54	1.1481	0.1382
4	52	1.1923	0.1759
5	50	1.2400	0.2151
6	48	1.2917	0.2559
7	42	1.4762	0.3895
8	37	1.6757	0.5162

TABLA N° 64 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE DE CINETICA DE LA
REMOCION DE BACTERIAS COLIFORMES FECALES TOTALES (KbT)

DIA	C. TOTALES NMP/100 ml	No/N	ln (No/N)
1	1.45E+07	1.0000	0.0000
2	2.61E+07	0.5556	-0.5878
3	2.24E+07	0.6473	-0.4349
4	1.86E+06	7.7957	2.0536
5	1.80E+06	8.0556	2.0864
6	2.08E+05	69.7115	4.2444
7	1.80E+05	80.5556	4.3889
8	4.20E+04	345.2381	5.8442

TABLA N° 65 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CINETICA
DE LA REMOCION DE LAS BACTERIAS COLIFORMES FECALES (Kb)

DIA	C. TOTALES NMP/100 ml	No/N	ln (No/N)
1	1.1E+06	1.0000	0.0000
2	1.8E+06	0.6111	-0.4925
3	1.3E+06	0.8462	-0.1671
4	5.0E+05	2.2000	0.7885
5	4.0E+05	2.7500	1.0116
6	3.2E+04	34.3750	3.5373
7	1.1E+04	100.0000	4.6052
8	<= 2000	550.0000	6.3099

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TABLA N° 66 - CARACTERISTICAS DE LODOS

EDAD DE LA LAGUNA: 2.5 AÑOS

EDAD DE LODOS: 2.5 AÑOS

PROFUNDIDAD DE LODOS : 1.30 m ESPESOR ~ 0.10 m

FECHA	LUGAR	PARAMETROS	
1/4/92	LEZAMA	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	112 mg/g
		SOLIDOS VOLATILES	44 mg/g
		SOLIDOS FIJOS	16 mg/g
		CENIZAS (900-950 °c)	8.5 mg/g
		DQO	90 g/l
		APORTE DBO SOLUBLE	14 mg/l
		IVL	9.1
11/5/92	LEZAMA	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	114 mg/g
		SOLIDOS VOLATILES	46 mg/g
		SOLIDOS FIJOS	14 mg/g
		CENIZAS (900-950 °c)	9.4 mg/g
		DQO	85 g/l
		APORTE DBO SOLUBLE	15 mg/l
		IVL	9
10/6/92	LEZAMA	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	115 mg/g
		SOLIDOS VOLATILES	50 mg/g
		SOLIDOS FIJOS	16 mg/g
		CENIZAS (900-950 °c)	8.5 mg/g
		DQO	95 g/l
		APORTE DBO SOLUBLE	16 mg/l
		IVL	9
15/6/92	LEZAMA	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	130 mg/g
		SOLIDOS VOLATILES	56 mg/g
		SOLIDOS FIJOS	22 mg/g
		CENIZAS (900-950 °c)	9.6 mg/g
		DQO	102 g/l
		APORTE DBO SOLUBLE	20 mg/l
		IVL	9.2

SISTEMA: J. M. COBO

TABLA N°: ..67... - EXAMEN MICROBIOLOGICO DE PLANCTON

(Fecha: 29-10-92)

FITOPLANCTON	Organismos/litro
Organismos Vegetales	
CHLOROPHYCEAE	
<u>Chlorella</u> sp.	600
CYANOPHYCEAE	
<u>Chroococcus</u> sp.	700
BACILLARIOPHYCEAE	
<u>Navícula</u> sp.	20
ZOOPLANCTON	
Organismos Animales	
RHIZOPODA	
Heliozoa	10
CILIATA	
Suctoria	15
ROTIFERA	150
OBSERVACIONES: En esta muestra se encontraron además gran cantidad de huevos de ROTIFERA, lo cual indica que estos organismos se hallan en un ambiente apropiado para su desarrollo.	

NOTA: Examen realizado en Laboratorio de OSN

TABLA Nro. 68 - SISTEMA "LOS PARAMILLOS"

Caudales

FECHA	HORA	DIA OPERATIVO	CAUDAL ENTRADA l/s
1/6/92		62	60.00
2/6/92		63	60.00
3/6/92		64	60.00
4/6/92	8.25	65	53.33
	9.50	65	53.33
	11.35	65	53.33
	13.20	65	53.33
5/6/92	8.20	66	53.33
	9.45	66	53.33
	11.34	66	53.33
	13.20	66	53.33
6/6/92		67	
7/6/92		68	
8/6/92		69	
9/6/92	13.10	70	43.33
	14.30	70	48.33
	15.50	70	50.00
	17.10	70	53.33
10/6/92	9.00	71	40.00
	10.30	71	45.00
	11.50	71	45.00
	13.45	71	45.00
11/6/92	8.10	72	46.67
	9.55	72	46.67
	11.30	72	46.67
	13.50	72	46.67
12/6/92	8.20	73	46.67
	9.50	73	46.67
	11.30	73	46.67
	13.50	73	46.67
13/6/92		74	
14/6/92		75	
15/6/92	8.15	76	56.67
	9.40	76	56.67
	11.30	76	56.67
	13.10	76	56.67
16/6/92	8.20	77	56.67
	10.10	77	90.00
	12.05	77	56.67
	14.00	77	56.67

FECHA	HORA	DIA OPERATIVO	CAUDAL ENTRADA l/s
17/6/92	13.10	78	46.67
	14.30	78	53.33
	16.00	78	53.33
	17.50	78	53.33
18/6/92		79	
19/6/92		80	
20/6/92		81	
21/6/92		82	
22/6/92	14.20	83	63.33
	15.25	83	63.33
	16.40	83	66.67
	18.00	83	66.67
23/6/92	8.40	84	56.67
	10.30	84	56.67
	11.50	84	56.67
	14.00	84	56.67
24/6/92	9.30	85	53.33
	11.00	85	53.33
	13.15	85	53.33
	14.20	85	53.33
25/6/92	8.35	86	73.33
	9.55	86	60.00
	11.40	86	60.00
	13.40	86	60.00
26/6/92	8.20	87	76.67
	9.50	87	56.67
	11.30	87	56.67
	14.00	87	56.67
27/6/92		88	
28/6/92		89	
29/6/92	12.10	90	56.67
	13.20	90	56.67
	15.20	90	56.67
	17.10	90	56.67
30/6/92	13.15	91	63.33
	15.00	91	63.33
	16.20	91	63.33
	17.45	91	63.33

TABLA Nro. 68 - SISTEMA "LOS PARAMILLOS"
Caudales (cont.)

FECHA	HORA	DIA OPERATIVO	CAUDAL ENTRADA l/s
1/7/92	9.40	92	46.67
	11.50	92	46.67
	13.10	92	46.67
	14.40	92	46.67
2/7/92	8.30	93	46.67
	10.20	93	46.67
	12.15	93	46.67
	14.00	93	46.67
3/7/92	8.45	94	53.33
	10.30	94	53.33
	12.30	94	53.33
	14.10	94	53.33
4/7/92		95	
5/7/92		96	
6/7/92	8.50	97	53.33
	9.50	97	53.33
	11.10	97	53.33
	13.40	97	53.33
7/7/92	11.10	98	46.67
	12.40	98	46.67
	14.30	98	46.67
	16.00	98	46.67
8/7/92	9.15	99	46.67
	10.50	99	46.67
	12.20	99	53.33
	14.15	99	53.33
9/7/92		100	
10/7/92	8.10	101	46.67
	9.50	101	46.67
	10.55	101	46.67
	12.40	101	46.67
11/7/92		102	
12/7/92		103	
13/7/92	12.20	104	46.67
	13.40	104	46.67
	15.30	104	46.67
	17.10	104	46.67
14/7/92	9.10	105	46.67
	10.30	105	46.67
	12.15	105	46.67
	13.50	105	46.67
15/7/92	8.20	106	46.67
	9.50	106	46.67
	11.00	106	46.67
	13.10	106	46.67
16/7/92	8.10	107	46.67
	10.20	107	46.67
	11.50	107	46.67
	14.20	107	46.67

FECHA	HORA	DIA OPERATIVO	CAUDAL ENTRADA l/s
17/7/92	10.20	108	46.67
	11.50	108	46.67
	13.15	108	46.67
	15.20	108	46.67
18/7/92		109	
19/7/92		110	
20/7/92	8.15	111	46.67
	9.30	111	46.67
	11.20	111	46.67
	13.50	111	46.67
21/7/92	10.15	112	46.67
	11.50	112	53.33
	12.40	112	53.33
	14.20	112	53.33
22/7/92	8.05	113	46.67
	9.30	113	46.67
	12.15	113	46.67
	14.5	113	46.67
23/7/92	8.15	114	53.33
	9.10	114	60.00
	11.00	114	60.00
	13.50	114	56.67
24/7/92	8.20	115	53.33
	9.50	115	53.33
	10.45	115	53.33
	13.20	115	53.33
25/7/92		116	
26/7/92		117	
27/7/92	8.00	118	46.67
	9.40	118	46.67
	11.20	118	46.67
	14.30	118	46.67
28/7/92	13.10	119	46.67
	15.30	119	46.67
	16.20	119	46.67
	17.30	119	46.67
29/7/92	9.10	120	46.67
	10.45	120	46.67
	12.20	120	46.67
	14.00	120	46.67
30/7/92	8.20	121	46.67
	10.20	121	46.67
	13.15	121	46.67
	15.20	121	46.67
31/7/92	8.20	122	46.67
	9.50	122	46.67
	11.20	122	46.67
	13.50	122	46.67

TABLA Nro. 68 - SISTEMA "LOS PARAMILLOS"

Caudales (cont.)

FECHA	HORA	DIA OPERATIVO	CAUDAL ENTRADA l/s
1/8/92		123	
2/8/92		124	
3/8/92	8.20	125	46.67
	9.50	125	46.67
	11.20	125	53.33
	13.30	125	53.33
4/8/92	9.10	126	53.33
	11.40	126	53.33
	13.20	126	53.33
	15.00	126	53.33
5/8/92	8.40	127	46.67
	10.20	127	46.67
	11.20	127	46.67
	13.20	127	46.67
6/8/92	12.40	128	53.33
	14.20	128	53.33
	15.50	128	53.33
	17.15	128	53.33
7/8/92	8.20	129	46.67
	9.30	129	46.67
	11.00	129	46.67
	13.25	129	46.67
8/8/92		130	
9/8/92		131	
10/8/92	8.10	132	46.67
	9.20	132	46.67
	10.40	132	46.67
	12.15	132	46.67
11/8/92	12.40	133	53.33
	14.15	133	53.33
	16.00	133	46.67
	17.50	133	46.67
12/8/92	9.00	134	46.67
	10.45	134	46.67
	11.20	134	46.67
	13.50	134	46.67
13/8/92	12.40	135	53.33
	14.30	135	53.33
	16.16	135	46.67
	17.50	135	53.33
14/8/92	8.50	136	60.00
	10.20	136	53.33
	12.00	136	53.33
	14.00	136	53.33

FECHA	HORA	DIA OPERATIVO	CAUDAL ENTRADA l/s
15/8/92		137	
16/8/92		138	
17/8/92		139	
18/8/92	8.00	140	46.67
	10.20	140	53.33
	11.50	140	53.33
	13.40	140	53.33
19/8/92	8.20	141	53.33
	9.50	141	53.33
	11.20	141	53.33
	13.50	141	53.33
20/8/92		142	
21/8/92		143	
22/8/92		144	
23/8/92		145	
24/8/92	10.20	146	53.33
	11.50	146	46.67
	13.10	146	53.33
	15.20	146	53.33
25/8/92	12.20	147	53.33
	14.10	147	53.33
	15.50	147	53.33
	17.40	147	53.33
26/8/92	8.40	148	53.33
	9.55	148	53.33
	11.20	148	53.33
	13.30	148	53.33
27/8/92	9.10	149	53.33
	10.20	149	53.33
	12.15	149	53.33
	14.00	149	53.33
28/8/92	13.05	150	53.33
	14.50	150	53.33
	16.20	150	53.33
	18.15	150	53.33
29/8/92		151	
30/8/92		152	
31/8/92		153	

TABLA Nro. 69 - SISTEMA "LOS PARAMILLOS"
CAUDALES MEDIOS DIARIOS

FECHA	DIA OPERATIVO	CAUDAL MEDIO l/s
1/6/92	62	60.00
2/6/92	63	60.00
3/6/92	64	60.00
4/6/92	65	53.33
5/6/92	66	53.33
9/6/92	70	48.75
10/6/92	71	43.75
11/6/92	72	46.67
12/6/92	73	46.67
15/6/92	76	56.67
16/6/92	77	65.00
17/6/92	78	51.67
22/6/92	83	65.00
23/6/92	84	56.67
24/6/92	85	53.33
25/6/92	86	63.33
26/6/92	87	61.67
29/6/92	90	56.67
30/6/92	91	63.33
1/7/92	92	46.67
2/7/92	93	46.67
3/7/92	94	53.33
6/7/92	97	53.33
7/7/92	98	46.67
8/7/92	99	50.00
10/7/92	101	46.67
13/7/92	104	46.67
14/7/92	105	46.67
15/7/92	106	46.67
16/7/92	107	46.67
17/7/92	108	46.67
20/7/92	111	46.67
21/7/92	112	51.67
22/7/92	113	46.67
23/7/92	114	57.50
24/7/92	115	53.33
27/7/92	118	46.67
28/7/92	119	46.67
29/7/92	120	46.67
30/7/92	121	46.67
31/7/92	122	46.67

TABLA Nro. 69 - SISTEMA "LOS PARAMILLOS"
CAUDALES MEDIOS DIARIOS (cont.)

FECHA	DIA OPERATIVO	CAUDAL MEDIO l/s
3/8/92	125	50.00
4/8/92	126	53.33
5/8/92	127	46.67
6/8/92	128	53.33
7/8/92	129	46.67
10/8/92	132	46.67
11/8/92	133	50.00
12/8/92	134	46.67
13/8/92	135	51.67
14/8/92	136	55.00
18/8/92	140	51.67
19/8/92	141	53.33
24/8/92	146	51.67
25/8/92	147	53.33
26/8/92	148	53.33
27/8/92	149	53.33
28/8/92	150	53.33

TABLA Nro. 70 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS

FECHA	HORA	DIA OPERATIVO	TEMPERATURA (°C)		
			CRUDO °C	EFLUENTE °C	LAGUNA °C
21/05/92	11.00	51			16
	12.00	51	21	16	
	13.00	51	18		17
	14.00	51		17	13
	15.00	51	18	12	
	16.00	51	17	12	13
22/05/92	10.00	52	16	10	10
	11.00	52	17	11	11
	12.00	52	17	12	12
	14.00	52	17	12	12
28/05/92	9.00	58	13		
	10.00	58		8	8
	11.00	58	17	9	9
	12.00	58	18	10	10
	14.00	58	18	10	10
29/05/92	9.00	59	14		
	10.00	59		7	7
	11.00	59	15	8	8
	12.00	59	17	8	8
	13.00	59	17		
	14.00	59		9	9
01/06/92	8.20	62	12	6	7
	9.45	62	16	7	7
	11.10	62	17	9	10
	13.45	62	17	10	11
2/6/92	8.35	63	14	7	7
	9.50	63	16	9	9
	11.30	63	17	10	10
	13.25	63	18	11	11
3/6/92	8.20	64	12	7	7
	9.40	64	15	9	10
	11.10	64	16	10	11
	13.50	64	17	11	12
4/6/92	8.25	65	13	7	7
	9.50	65	15	9	8
	11.35	65	16	9	9
	13.20	65	17	11	11
5/6/92	8.20	66	15	7	8
	9.45	66	15	9	9
	11.34	66	16	10	10
	13.20	66	17	11	11

TABLA Nro. 70 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS (cont.)

FECHA	HORA	DIA OPERATIVO	TEMPERATURA (°C)		
			CRUDO °C	EFLUENTE °C	LAGUNA °C
9/6/92	13.10	70	16	10	10
	14.30	70	16	10	9
	15.50	70	15	9	9
	17.10	70	15	9	9
10/6/92	9.00	71	15	7	7
	10.30	71	15	8	9
	11.50	71	16	9	10
	13.45	71	17	10	11
11/6/92	8.10	72	11	7	8
	9.55	72	15	8	9
	11.30	72	16	9	10
	13.50	72	17	10	10
12/6/92	8.20	73	15	6	6
	9.50	73	17	8	8
	11.30	73	17	8	8
	13.50	73	17	9	9
15/6/92	8.15	76	12	7	7
	9.40	76	14	8	8
	11.30	76	15	9	8
	13.10	76	16	10	9
16/6/92	8.20	77	13	7	7
	10.10	77	14	9	8
	12.05	77	17	10	9
	14.00	77	17	11	10
17/6/92	13.10	78	14	7	7
	14.30	78	17	9	8
	16.00	78	17	9	8
	17.50	78	17	10	9
22/6/92	14.20	83	17	13	13
	15.25	83	17	12	12
	16.40	83	16	12	12
	18.00	83	16	12	12
23/6/92	8.40	84	15	9	9
	10.30	84	16	11	10
	11.50	84	16	11	12
	14.00	84	16	11	12
24/6/92	9.30	85	15	10	11
	11.00	85	16	11	12
	13.15	85	17	11	12
	14.20	85	16	11	12

TABLA Nro. 70 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS (cont.)

FECHA	HORA	DIA OPERATIVO	TEMPERATURA (°C)		
			CRUDO °C	EFLUENTE °C	LAGUNA °C
25/6/92	8.35	86	15	10	11
	9.55	86	16	11	11
	11.40	86	17	12	12
	13.40	86	17	13	13
26/6/92	8.20	87	13	8	8
	9.50	87	14	8	9
	11.30	87	14	8	9
	14.00	87	14	9	9
29/6/92	12.10	90	16	8	8
	13.20	90	17	8	8
	15.20	90	16	8	8
	17.10	90	16	8	8
30/6/92	13.15	91	15	8	8
	15.00	91	14	8	8
	16.20	91	14	8	7
	17.45	91	14	7	7
1/7/92	9.40	92	15	5	6
	11.50	92	15	5	6
	13.10	92	17	7	7
	14.40	92	17	7	7
2/7/92	8.30	93	15	5	5
	10.20	93	15	5	6
	12.15	93	16	6	8
	14.00	93	17	7	9
3/7/92	8.45	94	15	5	5
	10.30	94	16	6	6
	12.30	94	17	7	8
	14.10	94	17	8	8
6/7/92	8.50	97	14	3	3
	9.50	97	15	3	4
	11.10	97	15	4	4
	13.40	97	16	5	5
7/7/92	11.10	98	15	6	7
	12.40	98	16	7	8
	14.30	98	16	8	9
	16.00	98	17	9	10
8/7/92	9.15	99	14	4	4
	10.50	99	15	5	5
	12.20	99	16	5	6
	14.15	99	17	7	8

TABLA Nro. 70 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS (cont.)

FECHA	HORA	DIA OPERATIVO	TEMPERATURA (°C)		
			CRUDO °C	EFLUENTE °C	LAGUNA °C
10/7/92	8.10	101	14	4	4
	9.50	101	14	4	5
	10.55	101	15	5	6
	12.40	101	16	6	7
13/7/92	12.20	104	15	6	7
	13.40	104	15	7	8
	15.30	104	16	8	9
	17.10	104	17	9	10
14/7/92	9.10	105	14	4	5
	10.30	105	15	5	6
	12.15	105	16	6	6
	13.50	105	17	7	7
15/7/92	8.20	106	14	4	4
	9.50	106	15	4	6
	11.00	106	15	5	7
	13.10	106	17	6	8
16/7/92	8.10	107	13	4	4
	10.20	107	14	5	5
	11.50	107	16	6	6
	14.20	107	17	7	8
17/7/92	10.30	108	14	5	6
	11.50	108	15	6	7
	13.15	108	15	7	8
	15.20	108	16	8	9
20/7/92	8.15	111	13	3	4
	9.50	111	14	4	5
	11.20	111	15	4	5
	13.50	111	16	6	6
21/7/92	10.15	112	14	5	6
	11.50	112	15	6	7
	12.45	112	15	7	7
	14.20	112	16	7	7
22/7/92	8.05	113	14	3	4
	9.30	113	15	4	5
	12.15	113	15	5	6
	14.50	113	16	7	7
23/7/92	8.15	114	13	3	3
	9.10	114	14	4	4
	11.00	114	14	4	5
	13.50	114	15	6	7

TABLA Nro. 70 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS (cont.)

FECHA	HORA	DIA OPERATIVO	TEMPERATURA (°C)		
			CRUDO °C	EFLUENTE °C	LAGUNA °C
24/7/92	8.20	115	13	3	4
	9.50	115	14	4	5
	10.45	115	15	5	6
	13.20	115	16	7	7
27/7/92	8.00	118	13	3	4
	9.40	118	14	4	5
	11.20	118	15	6	6
	14.30	118	16	8	8
28/7/92	13.10	119	15	10	11
	15.30	119	17	11	11
	16.20	119	17	11	12
	17.30	119	17	11	11
29/7/92	9.10	120	14	4	4
	10.45	120	14	4	5
	12.20	120	15	4	5
	14.00	120	15	5	6
30/7/92	8.20	121	14	4	4
	10.20	121	15	6	5
	13.15	121	15	7	8
	15.20	121	16	8	8
31/7/92	8.20	122	14	4	5
	9.50	122	15	4	6
	11.20	122	15	5	7
	13.50	122	16	7	8
03/08/92	8.20	125	14	7	7
	9.50	125	15.0	8.0	8.0
	11.20	125	17.0	8.0	8.0
	13.30	125	17.0	9.0	9.0
04/08/92	9.10	126	13.0	6.0	7.0
	11.40	126	14.0	7.0	7.0
	13.20	126	15.0	9.0	10.0
	15.00	126	15.0	10.0	11.0
05/08/92	8.40	127	13.0	7.0	7.0
	10.20	127	14.0	7.0	8.0
	11.20	127	15.0	8.0	9.0
	13.00	127	15.0	9.0	10.0
06/08/92	12.40	128	16.0	12.0	13.0
	14.20	128	17.0	12.0	13.0
	15.50	128	18.0	16.0	16.0
	17.15	128	18.0	16.0	17.0

TABLA Nro. 70 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS (cont.)

FECHA	HORA	DIA OPERATIVO	TEMPERATURA (°C)		
			CRUDO °C	EFLUENTE °C	LAGUNA °C
07/08/92	8.20	129	14.0	7.0	8.0
	9.50	129	14.0	8.0	8.0
	11.00	129	15.0	8.0	9.0
	13.15	129	16.0	9.0	9.0
10/08/92	8.10	132	14.0	7.0	8.0
	9.20	132	15.0	8.0	9.0
	10.40	132	16.0	8.0	9.0
	12.15	132	17.0	9.0	10.0
11/08/92	12.40	133	16.0	10.0	10.0
	14.15	133	16.0	11.0	11.0
	16.00	133	17.0	11.0	12.0
	17.50	133	17.0	11.0	12.0
12/08/92	9.00	134	13.0	6.0	7.0
	10.45	134	14.0	7.0	8.0
	11.20	134	15.0	7.0	8.0
	13.50	134	16.0	8.0	9.0
13/08/92	12.40	135	16.0	10.0	10.0
	14.30	135	17.0	10.0	10.0
	16.10	135	18.0	11.0	11.0
	17.00	135	18.0	11.0	11.0
14/08/92	8.50	136	14.0	7.0	7.0
	10.20	136	16.0	8.0	9.0
	12.00	136	16.0	9.0	9.0
	14.00	136	17.0	10.0	10.0
18/08/92	8.10	140	13.0		
	10.20	140	14.0		
	11.50	140	15.0		
	13.40	140	15.0		
19/08/92	8.20	141	13.0	6.0	7.0
	9.50	141	14.0	7.0	8.0
	11.20	141	14.0	7.0	8.0
	13.50	141	15.0	9.0	9.0
24/08/92	10.20	146	14.0	7.0	8.0
	11.50	146	15.0	8.0	8.0
	13.10	146	15.0	8.0	9.0
	15.20	146	16.0	9.0	10.0
25/08/92	12.20	147	16.0	11.0	11.0
	14.10	147	17.0	12.0	12.0
	15.30	147	17.0	12.0	13.0
	17.40	147	18.0	12.0	13.0

TABLA Nro. 70 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS (cont.)

FECHA	HORA	DIA OPERATIVO	TEMPERATURA (°C)		
			CRUDO °C	EFLUENTE °C	LAGUNA °C
26/08/92	8.40	148	14.0		
	9.55	148	16.0		
	11.20	148	16.0		
	13.30	148	17.0		
27/08/92	9.10	149	14.0		
	10.20	149	15.0		
	12.15	149	16.0		
	14.00	149	16.0		
28/08/92	13.05	150	17.0	13.0	13.0
	14.50	150	18.0	14.0	14.0
	16.20	150	18.0	15.0	15.0
	18.15	150	19.0	15.0	15.0

TABLA Nro. 71 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS

FECHA	DIA OPERATIVO	TEMP. AMBIENTE DIARIA	TEMPERATURA MEDIA DIURNA (°C)		
			CRUDO	EFLUENTE	LAGUNA
21/05/92	51	15.5	18.5	14.3	14.8
22/05/92	52	8	16.8	11.3	11.3
28/05/92	58	5	16.5	9.3	9.3
29/05/92	59	6	15.8	8.0	8.0
01/06/92	62	7.5	15.5	8.0	8.8
2/6/92	63	9.5	16.3	9.3	9.3
3/6/92	64	10	15.0	9.3	10.0
4/6/92	65	8.5	15.3	9.0	8.8
5/6/92	66	9.5	15.8	9.3	9.5
9/6/92	70	5.5	15.5	9.5	9.3
10/6/92	71	8.5	15.8	8.5	9.3
11/6/92	72	8.5	14.8	8.5	9.3
12/6/92	73	8	16.5	7.8	7.8
15/6/92	76	11	14.3	8.5	8.0
16/6/92	77	9	15.3	9.3	8.5
17/6/92	78	6.5	16.3	8.8	8.0
22/6/92	83	10.5	16.5	12.3	12.3
23/6/92	84	8	15.8	10.5	10.8
24/6/92	85	10	16.0	10.8	11.8
25/6/92	86	12.5	16.3	11.5	11.8
26/6/92	87	6.5	13.8	8.3	8.8
29/6/92	90	5.5	16.3	8.0	8.0
30/6/92	91	5	14.3	7.8	7.5
1/7/92	92	7	16.0	6.0	6.5
2/7/92	93	6.5	15.8	5.8	7.0
3/7/92	94	5.5	16.3	6.5	6.8
6/7/92	97	3.5	15.0	3.8	4.0
7/7/92	98	5	16.0	7.5	8.5
8/7/92	99	7	15.5	5.3	5.8
10/7/92	101	7.5	14.8	4.8	5.5
13/7/92	104	7.5	15.8	7.5	8.5
14/7/92	105	5	15.5	5.5	6.0
15/7/92	106	4.5	15.3	4.8	6.3
16/7/92	107	4.5	15.0	5.5	5.8
17/7/92	108	1.5	15.0	6.5	7.5
20/7/92	111	4	14.5	4.3	5.0
21/7/92	112	3.5	15.0	6.3	6.8
22/7/92	113	5	15.0	4.8	5.5
23/7/92	114	2.5	14.0	4.3	4.8

TABLA Nro. 71 - SISTEMA "LOS PARAMILLOS"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	TEMP. AMBIENTE DIARIA	TEMPERATURA MEDIA DIURNA (°C)		
			CRUDO	EFLUENTE	LAGUNA
24/7/92	115	3.5	14.5	4.8	5.5
27/7/92	118	7.5	14.5	5.3	5.8
28/7/92	119	9	16.5	10.8	11.3
29/7/92	120	8.5	14.5	4.3	5.0
30/7/92	121	7	15.0	6.3	6.3
31/7/92	122	5.5	15.0	5.0	6.5
03/08/92	125	7	15.8	8.0	8.0
04/08/92	126	8.5	14.3	8.0	8.8
05/08/92	127	8.5	14.3	7.8	8.5
06/08/92	128	12	17.3	14.0	14.8
07/08/92	129	12	14.8	8.0	8.5
10/08/92	132	13	15.5	8.0	9.0
11/08/92	133	12.5	16.5	10.8	11.3
12/08/92	134	10	14.5	7.0	8.0
13/08/92	135	11.5	17.3	10.5	10.5
14/08/92	136	13	15.8	8.5	8.8
18/08/92	140	13	14.3		
19/08/92	141	14	14.0	7.3	8.0
24/08/92	146	14	15.0	8.0	8.8
25/08/92	147	14.5	17.0	11.8	12.3
26/08/92	148	15	15.8		
27/08/92	149	15	15.3		
28/08/92	150	14.5	18.0	14.3	14.3

Nota: Las temperaturas ambiente medias diarias son datos del
Servicio Meteorológico Nacional.

TABLA Nro. 72 - SISTEMA "LOS PARAMILLOS"
TEMPERATURA MEDIA SEMANAL DIURNA

TEMPERATURA MEDIA SEMANAL (° C)			
AMBIENTE	CRUDO	EFLUENTE	LAGUNA
11.8	17.6	12.8	13.0
7.6	15.8	8.8	9.1
8.0	15.6	9.1	9.2
8.6	15.4	8.6	8.3
9.5	16.1	11.2	11.6
7.3	15.3	8.3	8.5
5.5	15.7	5.8	6.4
6.1	15.3	5.6	6.6
3.7	14.9	5.5	6.1
6.2	14.8	5.9	6.5
7.3	14.9	7.0	7.6
11.9	15.7	9.6	10.3
12.9	15.3	8.8	9.1
14.5	15.9	9.9	10.5
14.8	16.6	14.3	14.3

TABLA Nro. 73 - SISTEMA "LOS PARAMILLOS"

pH

FECHA	HORA	DIA OPERATIVO	pH CRUDO	pH LAGUNA	pH EFLUENTE
21/5/92	11.00	51		8.0	
	12.00	51	7.6		8.6
	13.00	51	7.5	8.1	
	14.00	51		7.8	8.8
	15.00	51	7.5		8.0
	16.00	51	7.4	7.8	7.8
22/5/92	10.00	52	7.1	7.7	8.0
	11.00	52	7.4	7.9	8.1
	12.00	52	7.6	8.1	8.0
	14.00	52	7.8	7.8	8.1
28/5/92	9.00	58	7.3		
	10.00	58		8.4	8.6
	11.00	58	7.6	8.4	8.6
	12.00	58	7.5	8.5	8.7
	14.00	58	7.5	8.3	8.6
29/5/92	9.00	59	7.3		
	10.00	59		8.4	8.6
	11.00	59	7.4	8.3	8.5
	12.00	59	7.4	8.2	8.5
	13.00	59	7.3		
	14.00	59		8.2	8.5
1/6/92	8.20	62	7.2	7.9	8.2
	9.45	62	7.6	7.6	8.5
	11.10	62	7.6	8.2	8.4
	13.45	62	7.5	8.4	8.5
2/6/92	8.35	63	7.3	8.4	8.7
	9.50	63	7.5	8.4	8.8
	11.30	63	7.6	8.4	8.9
	13.25	63	7.6	8.7	8.9
3/6/92	8.20	64	7.3	8.3	8.7
	9.40	64	7.4	8.4	8.8
	11.10	64	7.7	8.5	8.9
	13.50	64	7.6	8.5	8.8
4/6/92	8.25	65	7.2	8.4	8.7
	9.50	65	7.5	8.3	8.8
	11.35	65	7.5	8.4	8.8
	13.20	65	7.6	8.4	8.8
5/6/92	8.20	66	7.1	8.2	8.6
	9.45	66	7.0	7.8	8.4
	11.34	66	7.1	7.8	8.4
	13.20	66	7.1	7.8	8.4
9/6/92	13.10	70	7.1	7.8	8.4
	14.30	70	7.2	8.0	8.5
	15.50	70	7.1	8.1	8.5
	17.10	70	7.0	8.0	8.5
10/6/92	9.00	71	7.6	8.3	8.9
	10.30	71	7.7	8.3	9.0
	11.50	71	7.6	8.4	9.0
	13.45	71	7.7	8.4	9.0

TABLA Nro. 73 - SISTEMA "LOS PARAMILLOS"
pH (cont.)

FECHA	HORA	DIA OPERATIVO	pH CRUDO	pH LAGUNA	pH EFLUENTE
11/6/92	8.10	72	7.3	8.3	8.9
	9.55	72	7.4	8.4	9.1
	11.30	72	7.6	8.1	9.0
	13.50	72	7.6	8.9	9.0
12/6/92	8.20	73	7.5	7.9	8.8
	9.50	73	7.6	8.0	8.9
	11.30	73	7.6	8.0	8.9
	13.50	73	7.5	8.1	8.9
13/6/92		74	7.4	8.0	8.4
14/6/92		75	7.3	8.1	8.5
15/6/92	8.15	76	7.3	8.1	8.5
	9.40	76	7.3	8.2	8.5
	11.30	76	7.1	8.0	8.6
	13.10	76	7.2	8.1	8.7
16/6/92	8.20	77	7.2	8.2	8.7
	10.10	77	7.3	8.2	8.7
	12.05	77	7.0	8.1	8.5
	14.00	77	7.2	8.2	8.7
17/6/92	13.10	78	7.2	8.2	8.7
	14.30	78	7.2	8.2	8.7
	16.00	78	7.7	7.6	8.6
	17.50	78	7.8	7.5	8.7
18/6/92		79	7.5	7.8	8.7
19/6/92		80	7.6	7.6	8.7
20/6/92		81	7.3	7.9	8.5
21/6/92		82	7.4	7.8	8.6
22/6/92	14.20	83	7.3	7.8	8.5
	15.25	83	7.3	7.8	8.5
	16.40	83	7.2	7.9	8.6
	18.00	83	7.2	7.7	8.3
23/6/92	8.40	84	7.3	7.8	8.4
	10.30	84	7.2	7.8	8.4
	11.50	84	7.2	7.7	8.6
	14.00	84	7.4	7.8	8.5
24/6/92	9.30	85	7.3	7.9	8.5
	11.00	85	7.4	8.0	8.6
	13.15	85	6.8	7.5	8.2
	14.20	85	7.3	7.7	8.5
25/6/92	8.35	86	6.8	7.5	8.2
	9.55	86	7.3	7.7	8.5
	11.40	86	7.2	7.6	8.6
	13.40	86	7.2	7.7	8.6
26/6/92	8.20	87	7.4	7.6	8.6
	9.50	87	7.4	7.7	8.5
	11.30	87	7.3	7.7	8.6
	14.00	87	7.2	7.6	8.5
27/6/92		88			
28/6/92		89			

TABLA Nro. 73 - SISTEMA "LOS PARAMILLOS"
pH (cont.)

FECHA	HORA	DIA OPERATIVO	pH CRUDO	pH LAGUNA	pH EFLUENTE
29/6/92	12.10	90	7.3	8.0	8.8
	13.20	90	7.4	7.7	8.8
	15.20	90	7.3	7.9	8.9
	17.10	90	7.3	7.9	8.9
30/6/92	13.15	91	8.0	8.8	8.8
	15.00	91	7.7	8.8	7.7
	16.20	91	7.9	8.9	7.9
	17.45	91	7.9	8.9	7.9
1/7/92	9.40	92	7.6	7.1	8.9
	11.50	92	7.5	7.2	8.8
	13.10	92	7.9	8.1	8.9
	14.40	92	7.8	7.6	9.0
2/7/92	8.30	93	7.4	7.9	8.8
	10.20	93	7.3	8.1	8.8
	12.15	93	7.2	8.3	8.9
	14.00	93	7.2	8.0	9.0
3/7/92	8.45	94	7.2	7.8	8.9
	10.30	94	7.3	7.9	9.0
	12.20	94	7.3	8.1	9.1
	14.10	94	7.4	8.1	9.1
4/7/92		95			
5/7/92		96			
6/7/92	8.30	97	7.5	8.0	8.6
	9.50	97	7.5	8.1	8.5
	11.10	97	7.6	8.1	8.3
	13.40	97	7.6	8.1	8.5
7/7/92	11.10	98	7.3	7.9	8.6
	12.40	98	7.4	8.2	8.9
	14.30	98	7.4	8.3	8.9
	16.00	98	7.5	8.3	8.8
8/7/92	9.15	99	7.3	8.0	8.9
	10.50	99	7.3	8.0	8.8
	12.20	99	7.4	8.1	8.9
	14.15	99	7.4	8.2	8.8
9/7/92		100			
10/7/92	8.10	101	7.3	8.0	8.9
	9.50	101	7.5	8.1	9.0
	10.55	101	7.7	8.3	8.8
	12.40	101	7.6	8.1	8.8
11/7/92		102			
12/7/92		103			
13/7/92	12.20	104	7.4	8.1	8.6
	13.40	104	7.4	8.3	8.7
	15.30	104	7.5	8.2	8.7
	17.10	104	7.9	8.2	8.7
14/7/92	9.10	105	7.5	8.1	8.8
	10.30	105	7.5	8.0	8.7
	12.15	105	7.6	8.2	8.7
	13.50	105	7.7	8.0	8.8

TABLA Nro. 73 - SISTEMA "LOS PARAMILLOS"
pH (cont.)

FECHA	HORA	DIA OPERATIVO	pH CRUDO	pH LAGUNA	pH EFLUENTE
15/7/92	8.20	106	7.3	8.1	8.7
	9.50	106	7.4	8.0	8.6
	11.00	106	7.4	8.3	8.7
	13.00	106	7.5	8.2	8.8
16/7/92	8.10	107	7.3	7.9	8.5
	10.20	107	7.4	7.8	8.6
	11.50	107	7.3	8.0	8.6
	14.20	107	7.3	7.9	8.9
17/7/92	10.20	108	7.2	7.8	8.7
	11.50	108	7.4	7.7	8.7
	13.15	108	7.3	7.9	8.8
	15.20	108	7.4	7.8	8.9
18/7/92		109			
19/7/92		110			
20/7/92	8.15	111	7.4	7.6	8.3
	9.30	111	7.3	7.9	8.5
	11.20	111	7.2	8.1	8.6
	13.50	111	7.3	8.0	8.6
21/7/92	10.15	112	7.6	7.9	8.5
	11.50	112	7.5	8.0	8.7
	12.46	112	7.7	8.1	8.7
	14.20	112	7.6	8.0	8.6
22/7/92	8.05	113	7.6	7.9	8.6
	9.30	113	7.9	8.1	8.8
	12.15	113	7.4	8.1	8.7
	14.50	113	7.7	8.1	8.8
23/7/92	8.15	114	7.3	8.1	8.6
	9.16	114	7.5	8.3	8.6
	11.00	114	7.6	8.2	8.6
	13.50	114	7.9	8.2	8.7
24/7/92	8.20	115	7.2	8.2	8.8
	9.50	115	7.4	8.3	8.7
	10.45	115	7.3	8.3	8.7
	13.20	115	7.4	8.4	8.9
25/7/92		116			
26/7/92		117			
27/7/92	8.00	118	7.3	7.9	8.3
	9.40	118	7.6	7.8	8.4
	11.20	118	7.6	7.7	8.4
	14.30	118	7.4	8.0	8.5
28/7/92	13.10	119	7.6	7.9	8.5
	15.30	119	7.3	8.1	8.6
	16.20	119	7.4	8.0	8.6
	17.30	119	7.4	8.0	8.6
29/7/92	9.10	120	7.4	7.9	8.5
	10.45	120	7.5	7.9	8.7
	12.20	120	7.4	8.0	8.9
	14.00	120	7.5	7.9	9.0

TABLA Nro. 73 - SISTEMA "LOS PARAMILLOS"
pH (cont.)

FECHA	HORA	DIA OPERATIVO	pH CRUDO	pH LAGUNA	pH EFLUENTE
30/7/92	8.20	121	7.6	7.9	8.6
	10.20	121	7.5	7.9	8.5
	13.15	121	7.5	7.9	8.4
	15.20	121	7.5	7.9	8.6
31/7/92	8.20	122	7.3	7.9	8.3
	9.50	122	7.4	7.9	8.5
	11.20	122	7.3	8.1	8.5
	13.50	122	7.3	8.0	8.4
1/8/92		123			
2/8/92		124			
3/8/92	8.20	125	7.0	7.4	8.0
	9.50	125	7.2	7.6	8.1
	11.20	125	7.3	7.7	8.0
	13.30	125	7.3	7.7	8.0
4/8/92	9.20	126	7.1	7.9	8.2
	11.40	126	7.5	7.6	8.5
	13.20	126	7.6	7.8	8.4
	15.00	126	7.5	8.1	8.5
5/8/92	8.40	127	7.3	7.8	8.2
	10.20	127	7.6	7.9	8.2
	11.20	127	7.6	7.9	8.4
	13.20	127	7.7	7.6	8.5
6/8/92	12.40	128	7.6	7.8	8.5
	14.20	128	7.7	8.0	8.8
	15.50	128	7.3	7.8	8.6
	17.15	128	7.4	7.9	8.3
7/8/92	8.20	129	7.0	7.7	7.9
	9.30	129	7.3	7.7	8.1
	11.00	129	7.4	7.6	8.0
	13.25	129	7.3	7.7	8.1
8/8/92		130			
9/8/92		131			
10/8/92	8.14	132	7.2	7.9	7.6
	9.20	132	7.2	7.8	7.9
	10.40	132	7.6	7.9	8.1
	12.15	132	7.5	7.9	8.1
11/8/92	12.40	133	7.1	7.9	7.9
	14.15	133	7.4	8.0	8.1
	16.00	133	7.5	8.1	8.0
	17.30	133	7.8	8.0	8.1
12/8/92	9.00	134	7.3	7.6	8.2
	10.45	134	7.4	7.8	8.5
	11.20	134	7.4	7.8	8.4
	13.50	134	7.5	7.7	8.7
13/8/92	12.40	135	7.3	7.5	8.3
	14.30	135	7.6	7.8	8.0
	16.16	135	7.4	7.9	7.9
	17.20	135	7.3	7.8	8.1

TABLA Nro. 73 - SISTEMA "LOS PARAMILLOS"
pH (cont.)

FECHA	HORA	DIA OPERATIVO	pH CRUDO	pH LAGUNA	pH EFLUENTE
14/8/92	8.50	136	7.3	7.8	8.1
	10.20	136	7.6	7.7	8.5
	12.00	136	7.2	7.7	8.7
	14.00	136	7.4	7.9	8.5
15/8/92		137			
16/8/92		138			
17/8/92		139			
18/8/92	8.00	140	7.4	7.9	8.6
	10.20	140	7.6	7.5	8.4
	11.50	140	7.3	7.6	8.5
	13.40	140	7.3	7.6	8.7
19/8/92	8.20	141	7.5	7.6	8.0
	9.50	141	7.3	7.7	8.1
	11.20	141	7.5	7.7	7.9
	13.50	141	7.5	7.7	8.2
20/8/92		142			
21/8/92		143			
22/8/92		144			
23/8/92		145			
24/8/92	10.20	146	7.2	7.7	8.6
	11.50	146	7.3	7.6	8.8
	13.10	146	7.4	7.7	8.7
	15.20	146	7.7	7.8	8.8
25/8/92	12.20	147	7.4	7.6	8.3
	14.10	147	7.5	7.9	8.2
	15.50	147	7.3	7.8	8.2
	17.40	147	7.4	7.8	8.3
26/8/92	8.40	148	7.6	7.9	8.3
	9.55	148	7.6	7.8	8.2
	11.20	148	7.3	7.8	8.0
	13.30	148	7.2	7.7	8.0
27/8/92	9.10	149	7.2	7.6	8.2
	10.20	149	7.4	7.9	8.4
	12.15	149	7.4	7.7	8.3
	14.00	149	7.3	7.7	8.3
28/8/92	13.05	150	7.4	7.8	8.6
	14.50	150	7.3	7.8	8.5
	16.20	150	7.3	7.9	8.8
	18.15	150	7.3	7.9	8.8
29/8/92		151			
30/8/92		152			
31/8/92		153			

TABLA Nro. 74 - SISTEMA "LOS PARAMILLOS"

pH

FECHA	DIA OPERATIVO	pH CRUDO DIARIO	pH LAGUNA DIARIO	pH EFLUENTE DIARIO
21/5/92	51	7.46	7.94	8.29
22/5/92	52	7.49	7.89	8.06
28/5/92	58	7.49	8.40	8.62
29/5/92	59	7.35	8.27	8.54
1/6/92	62	7.46	8.04	8.43
2/6/92	63	7.49	8.47	8.82
3/6/92	64	7.50	8.41	8.81
4/6/92	65	7.45	8.38	8.78
5/6/92	66	7.08	7.90	8.45
9/6/92	70	7.10	7.98	8.48
10/6/92	71	7.65	8.35	8.98
11/6/92	72	7.48	8.43	9.00
12/6/92	73	7.55	8.00	8.88
13/6/92	74	7.40	8.00	8.40
14/6/92	75	7.30	8.10	8.50
15/6/92	76	7.23	8.10	8.58
16/6/92	77	7.18	8.18	8.65
17/6/92	78	7.48	7.88	8.68
18/6/92	79	7.50	7.80	8.70
19/6/92	80	7.60	7.60	8.70
20/6/92	81	7.30	7.90	8.50
21/6/92	82	7.40	7.80	8.60
22/6/92	83	7.25	7.80	8.48
23/6/92	84	7.28	7.78	8.48
24/6/92	85	7.20	7.78	8.45
25/6/92	86	7.13	7.63	8.48
26/6/92	87	7.33	7.65	8.55
29/6/92	90	7.33	7.88	8.85
30/6/92	91	7.88	8.85	8.08
1/7/92	92	7.70	7.50	8.90
2/7/92	93	7.28	8.08	8.88
3/7/92	94	7.30	7.98	9.03
6/7/92	97	7.55	8.08	8.48
7/7/92	98	7.40	8.18	8.80
8/7/92	99	7.35	8.08	8.85
10/7/92	101	7.53	8.13	8.88
13/7/92	104	7.55	8.20	8.68
14/7/92	105	7.58	8.08	8.75
15/7/92	106	7.40	8.15	8.70
16/7/92	107	7.33	7.90	8.65
17/7/92	108	7.33	7.80	8.78
20/7/92	111	7.30	7.90	8.50

TABLA Nro. 74 - SISTEMA "LOS PARAMILLOS"
pH (cont.)

FECHA	DÍA OPERATIVO	pH CRUDO DIARIO	pH LAGUNA DIARIO	pH EFLUENTE DIARIO
21/7/92	112	7.60	8.00	8.63
22/7/92	113	7.65	8.05	8.73
23/7/92	114	7.58	8.20	8.63
24/7/92	115	7.33	8.30	8.78
27/7/92	118	7.48	7.85	8.40
28/7/92	119	7.43	8.00	8.58
29/7/92	120	7.45	7.93	8.78
30/7/92	121	7.53	7.90	8.53
31/7/92	122	7.33	7.98	8.43
3/8/92	125	7.20	7.60	8.03
4/8/92	126	7.43	7.85	8.40
5/8/92	127	7.55	7.80	8.33
6/8/92	128	7.50	7.88	8.55
7/8/92	129	7.25	7.68	8.03
10/8/92	132	7.38	7.88	7.93
11/8/92	133	7.45	8.00	8.03
12/8/92	134	7.40	7.73	8.45
13/8/92	135	7.40	7.75	8.08
14/8/92	136	7.38	7.78	8.45
18/8/92	140	7.40	7.65	8.55
19/8/92	141	7.45	7.68	8.05
24/8/92	146	7.40	7.70	8.73
25/8/92	147	7.40	7.78	8.25
26/8/92	148	7.43	7.80	8.13
27/8/92	149	7.33	7.73	8.30
28/8/92	150	7.33	7.85	8.68

TABLA Nro. 75 - SISTEMA LOS PARAMILLOS
OXIGENO DISUELTO

FECHA	HORA	DIA OPERATIVO	OXIGENO DISUELTO LAGUNA mg/l	OXIGENO DISUELTO EFLUENTE mg/l
1/6/92	8.2	62	7.5	9.9
	9.45	62	7.6	10.1
	11.1	62		
	13.45	62		
2/6/92	8.35	63	7.9	
	9.5	63	9	
	11.3	63	9.9	
	13.25	63	9.9	
3/6/92	8.2	64	7.00	10.10
	9.4	64	7.80	10.80
	11.1	64	6.60	10.80
	13.5	64	7.00	9.90
4/6/92	8.25	65	4.60	8.50
	9.5	65	5.00	6.50
	11.35	65	5.10	7.00
	13.2	65	5.00	7.20
5/6/92	8.2	66		
	9.45	66		
	11.34	66		
	13.2	66		
9/6/92	13.1	70		
	14.3	70		
	15.5	70		
	17.1	70		
10/6/92	9	71	2.90	9.70
	10.3	71	3.20	7.10
	11.5	71	3.40	6.60
	13.45	71	3.30	6.30
11/6/92	8.1	72	4.00	9.00
	9.55	72	4.30	9.20
	11.3	72	4.60	8.00
	13.5	72	2.40	6.60
12/6/92	8.2	73	2.10	
	9.5	73	2.70	
	11.3	73	2.90	
	13.5	73	2.60	
15/6/92	8.15	76	5.60	8.30
	9.4	76	5.90	9.10
	11.3	76	6.10	9.90
	13.1	76	6.30	
16/6/92	8.2	77	5.90	7.10
	10.1	77	6.30	8.30
	12.05	77	7.00	8.60
	14	77	7.60	9.10

TABLA Nro. 75 - SISTEMA LOS PARAMILLOS
OXIGENO DISUELTO (cont.)

FECHA	HORA	DIA OPERATIVO	OXIGENO DISUELTO LAGUNA mg/l	OXIGENO DISUELTO EFLUENTE mg/l
17/6/92	13.1	78	4.20	10.30
	14.3	78	4.90	
	16	78	5.10	
	17.5	78	5.30	
22/6/92	14.2	83		10.90
	15.25	83		10.10
	16.4	83		8.50
	18	83		8.70
23/6/92	8.4	84		8.10
	10.3	84		7.80
	11.5	84		7.50
	14	84		7.10
24/6/92	9.3	85	5.80	
	11	85	6.00	
	13.15	85	6.10	
	14.2	85	6.30	
25/6/92	8.35	86	4.80	
	9.55	86	4.60	
	11.4	86	5.10	
	13.4	86	5.00	
26/6/92	8.2	87	4.00	
	9.5	87	3.60	
	11.3	87	2.30	
	14	87	2.60	
29/6/92	12.1	90		
	13.2	90		
	15.2	90		
	17.1	90		
30/6/92	13.15	91		
	15	91		
	16.2	91		
	17.45	91		
1/7/92	9.4	92	2.5	
	11.5	92	2.7	
	13.1	92	2.7	
	14.4	92	2.9	
2/7/92	8.3	93	6.5	8.9
	10.2	93	7	8.6
	12.15	93	6.8	8.8
	14	93	7.9	8.3
3/7/92	8.45	94	5.8	10.1
	10.3	94	6.2	9.6
	12.2	94	6.5	9.8
	14.1	94	6.1	9.9

TABLA Nro. 76 - SISTEMA LOS PARAMILLOS
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	OXIG. DISUELTO LAGUNA MEDIO DIARIO [mg/l]
1/6/92	62	7.55
2/6/92	63	9.18
3/6/92	64	7.10
4/6/92	65	4.93
10/6/92	71	3.20
11/6/92	72	3.83
12/6/92	73	2.58
15/6/92	76	5.98
16/6/92	77	6.70
17/6/92	78	4.88
24/6/92	85	6.05
25/6/92	86	4.88
26/6/92	87	3.13
1/7/92	92	2.70
2/7/92	93	7.05
3/7/92	94	6.15

SISTEMA LOS PARAMILLOS

TABLA N° 77 - DBO5 TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
14/5/92	232	69
21/5/92	257	85
1/6/92	268	94
3/6/92	218	54
11/6/92	325	90
26/7/92	102	50
27/7/92	73	67
28/7/92	83	79
29/7/92	65	63
30/7/92	68	68
31/7/92	83	67
2/8/92	98	89
12/8/92	92	74
24/8/92	150	80
9/9/92	98	62
21/9/92	96	60
24/9/92	73	26
3/10/92		50
11/10/92	63	52
15/10/92	62	61
19/10/92	98	68

TABLA N° 78 - DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
14/5/92	162	55
21/5/92	190	73
1/6/92	193	78
3/6/92	166	44
11/6/92	260	72
21/6/92	67	27
12/8/92	70	42
24/8/92	131	61
9/9/92	45	27
21/9/92	55	44
24/9/92	26	12
3/10/92	48	38
11/10/92	52	43
15/10/92	58	49
19/10/92	62	51

SISTEMA LOS PARAMILLOS

TABLA N° 79 - DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
20/4/92	351	186
14/5/92	369	
21/5/92	367	142
9/6/92	450	205
21/6/92	80	40
26/7/92	120	89
27/7/92	110	90
28/7/92	128	110
29/7/92	105	97
30/7/92	118	109
31/7/92	127	119
1/8/92	164	126
2/8/92	127	118
12/8/92	166	100
24/8/92	214	163
7/9/92	74	47
9/9/92	143	97
21/9/92	128	65
24/9/92	89	42
3/10/92	68	60
11/10/92	79	61
15/10/92	82	78
19/10/92	122	82

TABLA N° 80 - SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/4/92	36	36
27/4/92	46	28
3/6/92	13	20
9/6/92	11	16
11/6/92	21	24
21/6/92	17	18
12/8/92	55	37
24/8/92	80	57
7/9/92	32	19
9/9/92	21	24
21/9/92	62	48
24/9/92	54	32
3/10/92	31	32
11/10/92	110	120
15/10/92	120	98
19/10/92	58	28

SISTEMA LOS PARAMILLOS

TABLA N° 81 - NITROGENO AMONIACAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/4/92	8.96	4.48
27/4/92	3.36	2.24
21/6/92	5.60	3.36
12/8/92	22.40	5.60
7/9/92	7.50	4.50
9/9/92	0.40	0.30
21/9/92	6.34	4.00
24/9/92	8.96	3.34
3/10/92	0.60	0.30
11/10/92	0.80	0.40
15/10/92	0.80	0.30
19/10/92	0.70	0.20
23/10/92	0.60	0.40
27/10/92	0.50	0.40

TABLA N° 82 - NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
21/6/92	9.72	6.16
12/8/92	40.00	12.70
24/8/92	11.20	8.40
7/9/92	16.00	11.50
9/9/92	2.20	1.00
21/9/92	20.16	7.84
24/9/92	22.40	4.48
3/10/92	1.03	0.50
11/10/92	1.40	0.70
15/10/92	1.40	0.50
19/10/92	1.20	0.35
23/10/92	1.03	0.70
27/10/92	0.90	0.70

SISTEMA LOS PARAMILLOS

TABLA N° 83 - NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
21/6/92	3.00	0.10
24/8/92	0.70	ND
7/9/92	0.40	0.30
9/9/92	1.60	0.40
21/9/92	1.00	0.50
24/9/92	3.00	0.20
3/10/92	0.80	0.03
11/10/92	1.50	ND
15/10/92	0.20	ND
19/10/92	0.40	ND
27/10/92	0.80	ND

NOTA:

ND : No Detectado (Límite de detección: 0,01 mg/l).

SISTEMA LOS PARAMILLOS

TABLA N° 84 - FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
12/8/92	7.80	5.40
24/8/92	10.00	1.00
7/9/92	8.00	5.50
9/9/92	9.50	8.00
21/9/92	36.00	16.00
24/9/92	22.81	10.36
3/10/92	9.20	2.30
11/10/92	23.00	13.80
15/10/92	25.30	18.50
19/10/92	27.60	23.00
23/10/92	9.20	6.90
27/10/92	11.50	7.00

TABLA N° 85 - FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/4/92	1.00	0.40
20/4/92	0.60	0.40
1/6/92	0.56	0.23
3/6/92	0.52	0.44
12/8/92	4.32	3.12
24/8/92	5.00	1.00
7/9/92	2.00	1.00
9/9/92	4.00	1.00
21/9/92	15.00	9.00
24/9/92	12.28	8.00
3/10/92	2.00	0.50
11/10/92	0.80	0.40
15/10/92	11.00	8.00
19/10/92	12.00	10.00
23/10/92	2.00	1.50
27/10/92	2.50	1.50

SISTEMA LOS PARAMILLOS

TABLA N° 86 - GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
21/6/92	28	4
12/8/92	24	18
24/8/92	44	22

TABLA N° 87 - ARSENICO

FECHA	CRUDO ($\mu\text{g/l}$)	EFLUENTE ($\mu\text{g/l}$)
21/6/92	30	22
12/8/92	14	ND
24/8/92	6	ND

NOTA:

ND = no detectado

(límite de detección = $4\mu\text{g/l}$)

SISTEMA LOS PARAMILLOS

TABLA N° 88 - SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS		SS	2 HORAS	
	(ml/l)			(ml/l)	
	CRUDO	EFLUENTE		CRUDO	EFLUENTE
1/6/92	0.6	ND	1.0	ND	
2/6/92	0.7	ND	1.0	0.2	
3/6/92	0.6	ND	0.8	0.3	
4/6/92	0.5	ND	0.9	0.1	
5/6/92	0.6	ND	1.2	ND	
9/6/92	0.3	ND	0.6	0.3	
10/6/92	0.2	ND	0.8	0.2	
11/6/92	0.7	ND	1.2	ND	
12/6/92	0.1	ND	1.0	ND	
15/6/92	0.4	ND	0.9	ND	
16/6/92	0.5	ND	1.0	0.2	
17/6/92	0.3	ND	0.7	0.3	
22/6/92	0.1	ND	0.3	0.2	
23/6/92	0.5	0.1	1.2	0.2	
24/6/92	0.4	ND	0.8	0.1	
25/6/92	0.4	ND	0.7	0.1	
26/6/92	0.4	ND	1.1	0.1	

NOTAS:

ND significa no detectado, límite de detección: 0,1 ml/l.

SISTEMA LOS PARAMILLOS

TABLA N° 88 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
3/8/92	0.2	0.1	0.6	0.1
4/8/92	0.4	0.1	0.5	0.1
5/8/92	0.4	0.1	0.7	0.1
6/8/92	0.1	0.1	0.3	0.1
7/8/92	0.2	0.1	0.5	0.1
11/8/92	0.4	0.1	0.6	0.1
12/8/92	0.3	0.1	0.8	0.1
13/8/92	0.6	0.1	1.3	0.2
14/8/92	0.7	0.1	1.2	0.3
18/8/92	0.4	0.1	0.9	0.1
19/8/92	0.6	0.1	0.5	0.1
24/8/92	0.1	0.1	0.2	0.1
25/8/92	0.3	0.1	0.5	0.1
26/8/92	0.2	0.1	0.8	0.2
27/8/92	0.3	0.1	0.7	0.1
28/8/92	0.2	0.1	0.6	0.1

NOTAS:

ND significa no detectado, límite de detección: 0,1 ml/l.

SISTEMA LOS PARAMILLOS

TABLA N° 89 - MICROORGANISMOS INDICADORES

PARAMETRO (NMP/100 ml)

FECHA	COLITOTALES		COLIFECALES		STREPTOCOCCUS FAECALIS	
	ENTRADA	SALIDA	ENTRADA	SALIDA	ENTRADA	SALIDA
21/7/92	1.2E+07	1.2E+06	8.8E+05	5.0E+04	7.2E+05	1.5E+05
12/8/92	8.6E+06	2.6E+06	8.2E+05	3.0E+05	3.0E+04	< E+03
24/8/92	2.1E+07	6.4E+06	2.2E+06	1.0E+06	3.0E+04	< E+03
7/9/92	1.3E+08	3.1E+07	3.5E+07	8.2E+06		
9/9/92	4.3E+07	1.6E+07	8.0E+06	2.5E+06		
21/9/92	2.7E+07	6.9E+06	5.2E+06	1.1E+06		
24/9/92	4.8E+07	2.8E+07	9.4E+06	5.1E+06		
3/10/92	1.3E+06	7.8E+05	9.8E+05	7.0E+04		
11/10/92	1.9E+06	9.6E+04	1.7E+05	8.6E+03		
15/10/92	1.9E+06	1.1E+06	1.7E+05	1.0E+04		
19/10/92	2.2E+06	1.3E+05	2.0E+05	1.1E+04		
23/10/92	2.0E+06	5.5E+05	2.4E+05	4.6E+04		

SISTEMA LOS PARAMILLOS

TABLA N° 90 - REMOCIONES DE DBOS TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
14/5/92	232	69	70.3
21/5/92	257	85	66.9
(a)	109	74	32.1
11/6/92	325	90	72.3
(b)	78	65	16.7
(c)	91	78	14.3
12/8/92	92	74	19.6
24/8/92	150	80	46.7
9/9/92	98	62	36.7
(d)	85	43	49.4
11/10/92	63	52	17.5
15/10/92	62	61	1.6
19/10/92	98	68	30.6

NOTAS: (a) promedio días 1 y 3/6/92
 (b) promedio días 26 - 30/7/92
 (c) promedio días 31 - 2/8/92
 (d) promedio días 21 y 24/9/92

TABLA N° 91 - REMOCIONES DE DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
14/5/92	162	55	66.0
21/5/92	190	73	61.6
(a)	180	61	66.1
11/6/92	260	72	72.3
21/6/92	67	27	59.7
12/8/92	70	42	40.0
24/8/92	131	61	53.4
9/9/92	45	27	40.0
(b)	41	28	31.7
3/10/92	48	38	20.8
11/10/92	52	43	17.3
15/10/92	58	49	15.5
19/10/92	62	51	17.7

NOTAS: (a) promedio días 1 y 3/6/92
 (b) promedio días 21 y 24/9/92

SISTEMA LOS PARAMILLOS

TABLA N° 92 - REMOCIONES DE DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
21/5/92	367	142	61.3
9/6/92	450	205	54.4
21/6/92	80	40	50.0
(a)	116	99	14.7
(b)	139	121	12.9
12/8/92	166	100	39.8
24/8/92	214	163	23.8
(c)	109	72	33.9
(d)	109	54	50.5
3/10/92	68	60	11.8
11/10/92	79	61	22.8
15/10/92	82	78	4.9
19/10/92	122	82	32.8

NOTAS: (a) promedio días 26 - 30/7/92
 (b) promedio días 31 - 2/8/92
 (c) promedio días 7 y 9/9/92
 (b) promedio días 21 y 24/9/92

TABLA N° 93 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION (%)
1/4/92	36	36	0.0
27/4/92	46	28	39.1
3/6/92	13	20	0.0
(a)	16	20	0.0
21/6/92	17	18	0.0
12/8/92	55	37	32.7
24/8/92	80	57	28.8
(b)	27	22	18.5
(c)	58	40	31.0
3/10/92	31	32	0.0
11/10/92	110	120	0.0
15/10/92	120	98	18.3
19/10/92	58	28	51.7

NOTAS: (a) promedio días 9 y 11/6/92.
 (b) promedio días 7 y 9/9/92.
 (c) promedio días 21 y 24/9/92.

SISTEMA LOS PARAMILLOS

TABLA N° 94 - REMOCIONES DE NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
21/6/92	9.72	6.16	36.6
12/8/92	40.00	12.70	68.3
24/8/92	11.20	8.40	25.0
(a)	9.10	6.25	31.3
(b)	21.28	6.16	71.1
3/10/92	1.03	0.50	51.5
11/10/92	1.40	0.70	50.0
15/10/92	1.40	0.50	64.3
19/10/92	1.20	0.35	70.8
23/10/92	1.03	0.70	32.0
27/10/92	0.90	0.70	22.2

NOTAS: (a) promedio días 7 y 9/9/92.
(b) promedio días 21 y 24/9/92.

TABLA N° 95 - REMOCIONES DE NITROGENO AMONICAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
1/4/92	8.96	4.48	50.0
27/4/92	3.36	2.24	33.3
21/6/92	5.60	3.36	40.0
12/8/92	22.40	5.60	75.0
(a)	3.95	2.40	39.2
(b)	7.65	3.67	52.0
3/10/92	0.60	0.30	50.0
11/10/92	0.80	0.40	50.0
15/10/92	0.80	0.30	62.5
19/10/92	0.70	0.20	71.4
23/10/92	0.60	0.40	33.3
27/10/92	0.50	0.40	20.0

NOTAS: (a) promedio días 7 y 9/9/92.
(b) promedio días 21 y 24/9/92.

SISTEMA LOS PARAMILLOS

TABLA N° 96 - REMOCIONES DE NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
21/6/92	3.00	0.01	99.7
24/8/92	0.70	ND	98.6
(a)	1.00	0.35	65.0
(b)	2.00	0.35	82.5
3/10/92	0.80	0.03	96.3
11/10/92	1.50	ND	99.3
15/10/92	0.20	ND	95.0
19/10/92	0.40	ND	97.5
27/10/92	0.80	ND	98.8

NOTAS: (a) promedio días 7 y 9/9/92.
 (b) promedio días 21 y 24/9/92.
 ND : No Detectado (Límite de detección: 0,01 mg/l).

SISTEMA LOS PARAMILLOS

TABLA N° 97 - REMOCIONES DE FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION (%)
12/8/92	7.80	5.40	30.8
24/8/92	10.00	1.00	90.0
(a)	8.75	6.75	22.9
(b)	29.41	13.18	55.2
3/10/92	9.20	2.30	75.0
11/10/92	23.00	13.80	40.0
15/10/92	25.30	18.50	26.9
19/10/92	27.60	23.00	16.7
23/10/92	9.20	6.90	25.0
27/10/92	11.50	7.00	39.1

NOTAS: (a) promedio días 7 y 9/9/92.
(b) promedio días 21 y 24/9/92.

TABLA N° 98 - REMOCIONES DE FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION (%)
1/4/92	1.00	0.40	60.0
20/4/92	0.60	0.40	33.3
(a)	0.54	0.34	37.0
12/8/92	4.32	3.12	27.8
24/8/92	5.00	1.00	80.0
(b)	3.00	1.00	66.7
(c)	13.64	8.50	37.7
3/10/92	2.00	0.50	75.0
11/10/92	0.80	0.40	50.0
15/10/92	11.00	8.00	27.3
19/10/92	12.00	10.00	16.7
23/10/92	2.00	1.50	25.0
27/10/92	2.50	1.50	40.0

NOTAS: (a) promedio días 1 y 3/6/92.
(b) promedio días 7 y 9/9/92.
(c) promedio días 21 y 24/9/92.

SISTEMA LOS PARAMILLOS

TABLA N° 99 - REMOCIONES DE GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION (%)
21/6/92	28	4	85.7
12/8/92	24	18	25.0
24/8/92	44	22	50.0

TABLA N° 100 - REMOCIONES DE ARSENICO

FECHA	CRUDO (ug/l)	EFLUENTE (ug/l)	REMOCION (%)
21/6/92	30	22	26.7
12/8/92	14	ND	71.4
24/8/92	6	ND	33.3

NOTA:

ND = no detectado (límite de detección = 4 µg/l)

SISTEMA LOS PARAMILLOS

TABLA N° 101 - REMOCIONES DE SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS				2 HORAS			
	CRUDO (ml/l)	EFLUENTE (ml/l)	REMOCION (%)		CRUDO (ml/l)	EFLUENTE (ml/l)	REMOCION (%)	
(a)	0.6	ND	83.3		1.0	0.2	80.0	
(b)	0.3	ND	66.7		0.9	0.2	77.8	
(c)	0.4	ND	75.0		0.9	0.2	77.8	
(d)	0.4	ND	75.0		0.8	0.1	87.5	
(e)	0.3	0.1	66.7		0.6	0.1	83.3	
(f)	0.2	0.1	50.0		0.5	0.1	80.0	
(g)	0.4	0.1	75.0		0.7	0.1	85.7	
(h)	0.7	0.1	85.7		1.3	0.3	76.9	
(i)	0.5	0.1	80.0		0.7	0.1	85.7	
24/8/92	0.1	0.1	0.0		0.2	0.1	50.0	
(j)	0.3	0.1	66.7		0.7	0.1	85.7	

NOTAS:

ND : No Detectado, límite de detección: 0,1 ml/l.

- (a) promedio días 1 - 5/8/92.
- (b) promedio días 9 - 12/6/92.
- (c) promedio días 15 - 17/6/92.
- (d) promedio días 22 - 26/6/92.
- (e) promedio días 3 y 4/8/92.
- (f) promedio días 5 a 7/8/92.
- (g) promedio días 11 y 12/8/92.
- (h) promedio días 13 y 14/8/92.
- (i) promedio días 18 y 19/8/92.
- (j) promedio días 25 a 28/8/92.

SISTEMA LOS PARAMILLOS

TABLA Nº 102 - REMOCIONES DE MICROORGANISMOS INDICADORES

FECHA	PARAMETRO									
	COLITOTALES		COLIFECALES		STREPTOCOCCUS FAECALIS					
	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	
21/7/92	1.2E+07	1.2E+06	90.0	8.8E+05	5.5E+04	93.8	7.2E+05	1.5E+05	79.2	
12/8/92	8.6E+06	2.6E+06	69.8	8.2E+05	3.0E+05	63.4	3.0E+04	< E+03	96.7	
24/8/92	2.1E+07	6.4E+06	69.5	2.2E+06	8.4E+05	61.8	3.0E+04	< E+03	96.7	
(a)	8.7E+07	2.4E+07	72.4	2.2E+07	6.4E+06	70.9				
(b)	3.8E+07	1.7E+07	55.3	7.3E+06	3.1E+06	57.5				
3/10/92	1.3E+06	7.8E+05	40.0	9.8E+05	7.0E+04	92.9				
11/10/92	1.9E+06	9.6E+04	94.9	1.7E+05	8.6E+04	49.4				
15/10/92	1.9E+06	1.1E+06	42.1	1.7E+05	1.0E+04	94.1				
19/10/92	2.2E+06	1.3E+05	94.1	2.0E+05	1.1E+04	94.5				
23/10/92	2.0E+06	5.5E+05	72.5	2.4E+05	4.6E+04	80.8				

NOTAS:

- (a) promedio de los días 7 y 9/9/92.
(b) promedio de los días 21 y 24/9/92.

SISTEMA LOS PARAMILLOS

TABLA N° 103 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
15/10/92	62	50	19.4
19/10/92	98	50	49.0

TABLA N° 104 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
03/10/92	48	49	0.0
11/10/92	52	50	3.8
15/10/92	58	49	15.5

TABLA N° 105 - REMOCIONES DE DQO EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
03/10/92	68	68	0.0
15/10/92	82	72	12.2
19/10/92	122	100	18.0

SISTEMA LOS PARAMILLOS

TABLA N° 106 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
03/10/92	31	30	3.2
11/10/92	110	110	0.0
15/10/92	120	76	36.7
19/10/92	58	44	24.1

TABLA N° 107 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
03/10/92	1.03	1.20	0.0
11/10/92	1.40	1.20	14.3
15/10/92	1.40	0.70	50.0
19/10/92	1.20	1.10	8.3
23/10/92	1.03	0.85	17.5
27/10/92	0.90	0.80	11.1

TABLA N° 108 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
03/10/92	9.20	2.30	75.0
11/10/92	23.00	8.00	65.2
15/10/92	25.30	20.10	20.6
19/10/92	27.60	22.50	18.5
23/10/92	9.20	8.00	13.0
27/10/92	11.50	8.10	29.6

SISTEMA LOS PARAMILLOS

TABLA N° 109 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 1°

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION	1° (%)	CRUDO	SALIDA LAG. REMOCION	1° (%)
	(NMP/100ml)	(NMP/100ml)		(NMP/100ml)	(NMP/100ml)	
03/10/92	1.3E+06	1.0E+06	23.1	9.8E+05	8.0E+05	18.4
11/10/92	1.9E+06	1.5E+06	21.1	1.7E+05	1.4E+05	17.6
15/10/92	1.9E+06	1.6E+06	15.8	1.7E+05	1.6E+05	5.9
19/10/92	2.2E+06	1.9E+06	13.6	2.0E+05	1.7E+05	15.0
23/10/92	2.0E+06	1.7E+06	15.0	2.4E+05	1.4E+05	41.7

SISTEMA LOS PARAMILLOS

TABLA N° 110 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
03/10/92	49	39	20.4
11/10/92	50	44	12.0
15/10/92	49	48	2.0
19/10/92	62	49	21.0

TABLA N° 111 - REMOCIONES DE DQO EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
03/10/92	68	68	0.0
15/10/92	72	69	4.2
19/10/92	100	81	19.0

TABLA N° 112 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
03/10/92	30	27	10.0
11/10/92	110	111	0.0
15/10/92	76	83	0.0
19/10/92	44	41	6.8

TABLA N° 113 - REMOCIONES DE NITROGENO TOTAL KJELDAHL EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
03/10/92	1.20	1.30	0.0
11/10/92	1.20	0.97	19.2
15/10/92	0.70	0.70	0.0
19/10/92	1.10	1.37	0.0
23/10/92	0.85	0.90	0.0
27/10/92	0.80	0.75	6.3

TABLA N° 114 - REMOCIONES DE FOSFORO TOTAL EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
03/10/92	2.30	2.30	0.0
11/10/92	8.00	5.80	27.5
15/10/92	20.10	10.30	48.8
19/10/92	22.50	10.00	55.6
23/10/92	8.00	9.10	0.0
27/10/92	8.10	8.10	0.0

SISTEMA LOS PARAMILLOS

TABLA N° 115 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 2°

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION 2°	REMOCION (%)	CRUDO	SALIDA LAG. REMOCION 2°	REMOCION (%)
	(NMP/100ml)	(NMP/100ml)		(NMP/100ml)	(NMP/100ml)	
03/10/92	1.0E+06	9.0E+05	10.0	8.0E+05	7.5E+05	6.3
11/10/92	1.5E+06	1.3E+06	13.3	1.4E+05	1.0E+05	28.6
15/10/92	1.6E+06	1.4E+06	12.5	1.6E+05	1.4E+05	12.5
19/10/92	1.9E+06	1.5E+06	21.1	1.7E+05	1.6E+05	5.9
23/10/92	1.7E+06	1.3E+06	23.5	1.4E+05	1.0E+05	28.6

SISTEMA LOS PARAMILLOS

TABLA N° 116 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA 3°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
03/11/92	39	38	2.6
11/10/92	44	43	2.3
15/10/92	48	49	0.0
19/10/92	49	51	0.0

TABLA N° 117 - REMOCIONES DE DQO EN LA LAGUNA 3°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
03/11/92	68	60	11.8
15/10/92	69	78	0.0
19/10/92	81	82	0.0

TABLA N° 118 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES EN LA LAGUNA 3°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
03/11/92	27	32	0.0
11/10/92	111	120	0.0
15/10/92	83	98	0.0
19/10/92	41	28	31.7

SISTEMA LOS PARAMILLOS

**TABLA N° 119 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA 3°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
03/11/92	1.30	0.50	61.5
11/10/92	0.97	0.70	27.8
15/10/92	0.70	0.50	28.6
19/10/92	1.37	0.35	74.5
23/10/92	0.90	0.70	22.2
27/10/92	0.75	0.70	6.7

**TABLA N° 120 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA 3°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
03/11/92	2.30	2.30	0.0
11/10/92	5.80	13.80	0.0
15/10/92	10.30	18.50	0.0
19/10/92	10.00	23.00	0.0
23/10/92	9.10	6.90	24.2
27/10/92	8.10	7.00	13.6

SISTEMA LOS PARAMILLOS

TABLA N° 121 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 3°

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION		CRUDO	SALIDA LAG. REMOCION	
	(NMP/100ml)	3° (NMP/100ml)	(%)	(NMP/100ml)	3° (NMP/100ml)	(%)
03/11/92	9.0E+05	7.8E+05	13.3	7.5E+05	7.0E+04	90.7
11/10/92	1.3E+06	9.6E+04	92.6	1.0E+05	8.6E+03	91.4
15/10/92	1.4E+06	1.1E+06	21.4	1.4E+05	1.0E+04	92.9
19/10/92	1.5E+06	1.3E+05	91.3	1.6E+05	1.1E+04	93.1
23/10/92	1.3E+06	5.5E+05	57.7	1.0E+05	4.6E+04	54.0

TABLA N° 122 - ENSAYO BATCH PARA LA DETERMINACION DE LA
CONSTANTE CINETICA DE REMOCION DE BACTERIAS
COLIFORMES TOTALES (KbT) - TEMP. 6 °C

FECHA	DIA	C. TOTALES MNP/100 ml	No/N	ln (No/N)
16/7/92	1	1.7E+07	1.0000	0.0000
17/7/92	2	9.2E+06	1.8478	0.6140
18/7/92	3	4.7E+06	3.6170	1.2856
19/8/92	4	1.8E+06	9.4444	2.2454
20/7/92	5	7.0E+05	24.5857	3.2022
21/7/92	6	1.15E+04	1478.26	7.2986
22/7/92	7	1.21E+04	1404.96	7.2478

TABLA N° 123 - ENSAYO BATCH PARA LA DETERMINACION DE LA
CONSTANTE CINETICA DE REMOCION DE BACTERIAS
COLIFORMES FECALES (Kb) - TEMP. 6 °C

FECHA	DIA	C.FECALES MNP/100 ml	No/N	ln (No/N)
16/7/92	1	1.5E+06	1.0000	0.0000
17/7/92	2	8.0E+05	1.8750	0.6286
18/7/92	3	4.2E+05	3.5714	1.2730
19/7/92	4	1.2E+05	12.5000	2.5257
20/7/92	5	6.8E+04	22.0588	3.0937
21/7/92	6	2.5E+03	600.0000	6.3969
22/7/92	7	2.5E+03	600.0000	6.3969

TABLA N° 124 - CONSTANTE CINETICA DE DESOXIGENACION (k)

DBO5	DBOu	k	TIPO DE MUESTRA
131	160	0.15	CRUDO
61	92	0.09	EFLUENTE

TABLA N° 125 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CINETICA
DE REMOCION DE MATERIA ORGANICA (K)
TEMPERATURA MEDIA = 15 °C

FECHA	DIA	DBO5 mg/l	So/S	ln (So/S)
OCTUBRE 92	1	90	1.0000	0.0000
	2	69	1.3043	0.2657
	3	54	1.6667	0.5108
	4	57	1.5789	0.4568
	5	45	2.0000	0.6931
	6	44	2.0455	0.7156
	7	39	2.3077	0.8362
	8	38	2.3684	0.8622
	9	38	2.3684	0.8622
	10	37	2.4324	0.8889

TABLA N° 126 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE DE CINETICA
DE LA REMOCION DE BACTERIAS COLIFORMES FECALIS TOTALES (KbT)

FECHA	DIA	C. TOTALES NMP/100 ml	No/N	ln (No/N)
OCTUBRE 92	1	1.1E+07	1.0000	0.0000
	2	3.5E+07	0.3276	-1.1160
	3	1.3E+07	0.8769	-0.1313
	4	1.1E+07	1.0755	0.0728
	5	7.8E+06	1.4615	0.3795
	6	6.9E+06	1.6522	0.5021
	7	5.4E+06	2.1111	0.7472
	8	3.3E+06	3.4545	1.2397
	9	2.1E+06	5.4286	1.6917
	10	1.0E+05	114.0000	4.7362

TABLA N° 127 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CIENTICA
DE LA REMOCION DE LAS BACTERIAS COLIFORMES FECALIS (Kb)

FECHA	DIA	C. FECALIS NMP/100 ml	No/N	ln (No/N)
OCTUBRE 92	1	3.0E+06	1.0000	0.0000
	2	3.5E+06	0.8571	-0.1542
	3	3.5E+06	0.8571	-0.1542
	4	2.6E+06	1.1538	0.1431
	5	1.0E+06	3.0000	1.0986
	6	5.0E+05	6.0000	1.7918
	7	4.5E+05	6.6667	1.8971
	8	3.7E+05	8.1081	2.0929
	9	1.3E+05	23.0769	3.1388
	10	3.5E+04	85.7143	4.4510

TABLA N° 128 - CONSTANTE DE DESOXIGENACION (k)

DBO5	DBOu	k	TIPO DE MUESTRA
108	257	0.05	CRUDO
87	198	0.05	EFLUENTE

SISTEMA LOS PARAMILLOS

TABLA N° 129 - CARACTERISTICAS DE LODOS

EDAD DE LA LAGUNA: 6 AÑOS

EDAD DE LOS LODOS: 1 MES

PROFUNDIDAD DE LODOS : 1.70 m ESPESOR ~ m

FECHA	LUGAR	PARAMETROS	
14/5/92	MENDOZA	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	66 mg/g
		SOLIDOS VOLATILES	32 mg/g
		SOLIDOS FIJOS	10 mg/g
		CENIZAS (900-950 °C)	5.3 mg/g
		DQO	42 g/l
		APORTE DBO SOLUBLE	7 mg/l
		IVL	18.2
16/6/92	MENDOZA	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	70 mg/g
		SOLIDOS VOLATILES	33 mg/g
		SOLIDOS FIJOS	15 mg/g
		CENIZAS (900-950 °C)	6 mg/g
		DQO	45 g/l
		APORTE DBO SOLUBLE	8 mg/l
		IVL	15
4/8/92	MENDOZA	SECATIVIDAD	REGULAR
		RESIDUO 100/105°C	35 mg/g
		SOLIDOS VOLATILES	67 mg/g
		SOLIDOS FIJOS	6 mg/g
		CENIZAS (900-950 °C)	4 mg/g
		DQO	80 g/l
		APORTE DBO SOLUBLE	23 mg/l
		IVL	18.5

SISTEMA: PARAMILLOS

TABLA N°: ..130.. - EXAMEN MICROBIOLOGICO DE PLANCTON

(Fecha: 27-10-92)

FITOPLANCTON	Organismos/litro
Organismos Vegetales	

EUGLENOPHYCEAE

Euglena sp.

10.000

CYANOPHYCEAE

Oscillatoria sp.

2.000

ZOOPLANCTON

Organismos Animales

CLADOCERA

10

COPEPODA

10

OBSERVACIONES: La presencia de Euglena sp. y Oscillato-
ria sp. es característica de ambientes con alto contenido
de materia orgánica en proceso de degradación.

NOTA: Examen realizado en Laboratorio de OSN

TABLA Nro. 131 - SISTEMA MACHAGAI
TEMPERATURAS

FECHA	DIA OPERATIVO	HORA	TEMP. CRUDO °C	TEMP. EFLUENTE °C	TEMP. LAGUNA °C
30/06/92	53	9.00	20.5	16.0	16.0
	53	12.00	18.0	17.0	
	53	14.00	18.0	18.0	16.0
	53	16.00	16.0	16.0	14.0
01/07/92	54	8.10	17.0	14.0	16.0
	54	12.00	16.0	15.0	15.0
	54	14.00	17.0	16.0	15.0
	54	16.00			
03/07/92	56	8.30	14.0	14.0	16.0
	56	12.00	16.0	16.0	18.0
	56	14.00	19.0	15.0	18.0
	56	16.00			
06/07/92	59	11.30	18.0	14.0	14.0
	59	14.00	19.0	14.0	15.0
	59	16.00	16.0	14.0	14.0
	59				
18/07/92	71	10.00	18.0	16.0	16.0
	71	12.00	17.0	16.0	15.0
	71	14.00	17.0	17.0	15.0
	71	16.00	17.0	17.0	17.0
20/07/92	73	10.20	18.0	14.0	16.0
	73	12.00	18.0	14.0	15.0
	73	14.00	16.0	16.0	16.0
	73	16.00	17.0	17.0	17.0
21/07/92	74	9.00	18.0	14.0	16.0
	74	12.00	18.0	17.0	17.0
	74	14.00	19.0	14.0	
	74	16.00	18.0	14.0	16.0
22/07/92	75	9.10	16.0	17.0	15.0
	75	12.00	18.0	18.0	16.0
	75	14.00	18.0	8.0	15.0
	75	16.00	16.0	18.0	15.0
23/07/92	76	10.20	18.0	16.0	16.0
	76	12.00	18.0	18.0	15.0
	76	14.00	17.0	18.0	16.0
	76	16.00	17.0	19.0	15.0
24/07/92	77	15.00	18.0	16.0	16.0
	77	18.00	18.0	16.0	16.0
	77				
	77				
27/07/92	80	16.00	18.0	16.0	16.0
	80	18.00	18.0	16.0	16.0
	80				
	80				

TABLA Nro. 131 - SISTEMA MACHAGAI
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP. CRUDO °C	TEMP. EFLUENTE °C	TEMP. LAGUNA °C
28/07/92	81	18.00	18.0	19.0	16.0
	81				
	81				
	81				
29/07/92	82	10.30	20.0	19.0	17.0
	82	12.00	22.0	20.0	
	82	14.00	21.0	20.0	17.0
	82	16.00	20.0	20.0	
30/07/92	83	10.30	18.0	20.0	17.0
	83	12.00	19.0	20.0	18.0
	83	14.00	20.0	20.0	18.0
	83	16.00	19.0	23.0	18.0
31/07/92	84	13.00	16.0	14.0	15.0
	84	16.00	17.0	13.0	16.0
	84	18.00	17.0	15.0	15.0
	84				
02/08/92	86	16.00	18.0	20.0	16.0
	86	18.00	18.0	20.0	16.0
	86				
	86				
05/08/92	89	12.15	18.0	19.0	
	89	14.00	19.0	20.0	17.0
	89	18.00			
	89				
07/08/92	91	13.30	20.0	20.0	17.0
	91	16.00	21.0	20.0	17.0
	91	18.00	20.0	20.0	18.0
	91				
08/08/92	92	9.00	16.0	15.0	16.0
	92	12.00	17.0	14.0	15.0
	92	14.00	15.0	15.0	16.0
	92	16.00	18.0	13.0	16.0
09/08/92	93	9.30	18.0	17.0	16.0
	93	12.00	19.0	18.0	16.0
	93	14.00	17.0	18.0	17.0
	93	16.00	17.0	18.0	16.0
10/08/92	94	8.00	17.0	13.0	16.0
	94	12.00	16.0	14.0	16.0
	94	14.00	18.0	14.0	15.0
	94	16.00	17.0	13.0	16.0
12/08/92	96	8.30	17.0	14.0	16.0
	96	12.00	16.0	12.0	15.0
	96	14.00	18.0	12.0	16.0
	96	16.00	16.0	11.0	16.0

TABLA Nro. 131 - SISTEMA MACHAGAI
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP. CRUDO °C	TEMP. EFLUENTE °C	TEMP. LAGUNA °C
14/08/92	98	10.00	14.0	12.0	15.0
	98	12.00	15.0	13.0	15.0
	98	14.00	16.0	12.0	16.0
	98	16.00	14.0	11.0	15.0
16/08/92	100	14.00	13.0	14.0	16.0
	100	16.00	18.0	13.0	15.0
	100	18.00	15.0	12.0	16.0
	100				
19/08/92	103	8.30	18.0	16.0	16.0
	103	12.00	17.0	17.0	17.0
	103	14.00	17.0	17.0	16.0
	103	16.00	18.0	17.0	15.0
04/09/92	119	9.30	19.0	16.5	16.0
	119	12.00	20.0	16.0	16.0
	119	14.00	22.0	16.5	16.5
	119	16.00	20.0	17.0	16.5
07/09/92	122	9.15	20.0	16.5	17.0
	122	12.00	21.0	16.5	17.0
	122	14.00	23.0	16.5	17.0
	122	16.00	21.0	16.5	17.0
08/09/92	123	9.45	22.0	16.5	17.0
	123	12.00	23.0	17.0	17.0
	123	14.00	23.0	16.5	17.0
	123	16.00	23.0	16.0	17.0
09/09/92	124	9.35	22.4	16.8	17.0
	124	12.00	23.3	16.5	17.2
	124	14.00	23.5	16.4	17.0
	124	15.30	21.8	16.4	17.0
10/09/92	125	9.30	20.1	16.5	17.2
	125	12.00	23.4	17.0	17.3
	125	14.00	22.8	17.0	17.2
	125	16.00	19.8	17.0	17.2
11/09/92	126	9.35	23.0	16.8	17.5
	126	12.00	24.0	16.7	17.3
	126	14.00	23.0	17.0	17.2
	126	16.00	22.0	16.8	17.1
14/09/92	129	9.10	19.0	16.0	17.6
	129	12.00	22.0	17.0	17.2
	129	14.00	23.0	17.0	17.3
	129	16.00	20.0	16.8	17.5
15/09/92	130	9.20	21.0	17.2	17.5
	130	12.00	23.0	17.0	17.4
	130	14.00	24.0	17.2	17.6
	130	16.00	24.0	16.8	17.5

TABLA Nro. 131 - SISTEMA MACHAGAI
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP. CRUDO °C	TEMP. EFLUENTE °C	TEMP. LAGUNA °C
16/09/92	131	9.15	20.0	16.6	17.5
	131	12.00	22.0	16.8	17.0
	131	14.00	23.0	16.5	17.0
	131	16.00	22.0		17.0
17/09/92	132	9.15	23.0	16.8	17.5
	132	12.00	23.0	16.5	17.6
	132	14.00	22.0	17.0	17.0
	132	16.00	22.0	17.0	17.0
18/09/92	133	9.20	22.0	17.2	17.5
	133	12.00	24.0	17.4	17.6
	133	14.00	24.0	17.4	17.5
	133	16.00	23.0	17.2	17.5
21/09/92	136	9.45	23.0	21.0	20.0
	136	12.00	25.0	21.0	
	136	14.00	25.0	21.0	20.0
	136	16.00	24.0	21.0	20.0
25/09/92	140	10.00	20.0	18.0	17.0
	140	12.30	21.0	18.0	17.0
	140	14.00	19.0	18.0	17.5
	140	16.00	19.0	18.0	17.5
26/09/92	141	9.10	19.0	16.0	16.0
	141	12.00	18.0	16.0	16.0
	141	14.00	19.0	17.0	17.0
	141	16.00	19.0	17.0	17.0
28/09/92	143	9.15	22.0	16.0	17.0
	143	12.00	23.0	16.0	17.5
	143	14.00	20.0	15.8	17.0
	143	16.00	20.0	15.6	17.0
29/09/92	144	9.20	24.0	17.0	18.0
	144	12.00	25.0	17.5	18.0
	144	14.00	25.0	17.5	18.0
	144	16.00	24.0	17.5	18.0
30/09/92	145	9.30	23.0	17.2	17.8
	145	12.00	24.0	17.4	17.8
	145	14.00	24.0	17.4	17.8
	145	16.00	22.0	17.4	17.8
01/10/92	146	9.15	21.0	17.6	17.9
	146	12.00	23.0	17.6	18.0
	146	14.00	23.0	17.5	18.0
	146	16.00	23.0		17.9
02/10/92	147	9.15	26.0	17.5	18.0
	147	12.00	28.0	17.5	18.0
	147	14.00	30.0	17.4	18.0
	147	16.00	29.0	17.5	18.0

TABLA Nro. 131 - SISTEMA MACHAGAI
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP. CRUDO °C	TEMP. EFLUENTE °C	TEMP. LAGUNA °C
05/10/92	150	9.20	27.0	17.6	18.2
	150	12.50	27.5	17.7	18.2
	150	14.00	28.5	17.7	18.2
	150	16.00	27.1	17.7	18.2
07/10/92	152	9.15	24.0	17.5	18.0
	152	12.00	25.0	17.5	18.0
	152	14.00	27.0	17.6	18.0
	152	16.00	27.0	17.5	18.0
08/10/92	153	9.15	28.0	17.5	18.0
	153	12.00	29.0	17.6	18.0
	153	14.00	29.5	17.6	18.0
	153	16.00	31.0	17.7	18.0
09/10/92	154	9.15	25.0	18.0	18.0
	154	12.00	27.0	18.0	18.0
	154	14.15	26.0	18.0	18.0
	154	16.30	23.0	18.0	18.0
13/10/92	158	9.15	23.0	18.0	18.0
	158	12.00	25.0	18.0	18.0
	158	14.15	26.0	18.0	18.0
	158	16.30	24.0	18.0	18.0
14/10/92	159	9.15	23.0	18.0	18.2
	159	12.00	27.0	18.0	18.2
	159	14.15	30.0	18.0	18.2
	159	16.00	27.0	18.0	18.2
15/10/92	160	9.15	20.0	17.5	18.5
	160	12.00	30.0	17.5	18.5
	160	14.15	33.0	17.5	18.5
	160	16.00	31.0	17.5	18.5
16/10/92	161	9.15	21.0	17.8	18.5
	161	12.00	25.0	17.8	18.5
	161	14.15	30.0	17.8	18.5
	161	16.00	30.0	17.8	18.5
21/10/92	166	9.15	20.0	16.5	17.0
	166	12.00	27.0	16.5	17.0
	166	14.15	34.0	16.5	17.0
	166	16.00	30.0	16.5	17.0
22/10/92	167	9.15	20.0	17.0	17.5
	167	12.00	22.0	17.0	17.5
	167	14.15	34.0	17.0	17.5
	167	16.00	30.0	17.0	17.5
23/10/92	168	9.15	22.0	18.0	17.5
	168	12.00	24.0	18.0	17.5
	168	14.15	28.0	18.0	17.5
	168	16.00	28.0	18.0	17.5

TABLA Nro. 131 - SISTEMA MACHAGAI
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	TEMP. CRUDO °C	TEMP. EFLUENTE °C	TEMP. LAGUNA °C
26/10/92	171	9.15	22.0	17.6	18.0
	171	12.00	23.0	17.6	18.0
	171	14.15	36.0	17.6	18.0
	171	16.00	32.0	17.6	18.0
27/10/92	172	9.15	22.0	17.0	17.5
	172	12.00	28.0	17.0	17.5
	172	14.15	32.0	17.0	17.5
	172	16.00	34.0	17.0	17.5
28/10/92	173	9.15	23.0	18.1	17.8
	173	12.00	28.0	18.1	17.8
	173	14.15	32.0	18.1	17.8
	173	16.00	27.0	18.1	17.8
29/10/92	174	9.15	19.0	18.2	17.8
	174	12.00	28.0	18.2	17.8
	174	14.15	33.0	18.2	17.8
	174	16.00	27.0	18.2	17.8
30/10/92	175	9.15	20.0	18.2	17.8
	175	12.00	24.0	18.2	17.8
	175	14.15	27.0	18.2	17.8
	175	16.00	27.0	18.2	17.8
02/11/92	178	9.15	23.0	18.5	18.0
	178	12.00	28.0	18.5	18.0
	178	14.15	34.0	18.5	18.0
	178	16.00	30.0	18.5	18.0
03/11/92	179	9.15	24.0	18.5	18.0
	179	12.00	26.0	18.5	18.0
	179	14.15	35.0	18.5	18.0
	179	16.00	34.0	18.5	18.0
04/11/92	180	9.15	25.0	18.5	18.0
	180	12.00	32.0	18.5	18.0
	180	14.15	35.0	18.5	18.0
	180	16.00	35.0	19.0	18.0
05/11/92	181	9.15	20.0	18.6	18.0
	181	12.00	30.0	18.6	18.0
	181	14.15	34.0	18.6	18.0
	181	16.00	30.0	18.6	18.0

TABLA Nro. 132 - SISTEMA MACHAGAI
TEMPERATURAS

FECHA	DIA OPERATIVO	TEMPERATURAS DIURNAS			
		MEDIA AMBIENTE DIARIA	MEDIA CRUDO DIARIA	MEDIA EFLUENTE DIARIA	MEDIA LAGUNA DIARIA
30/06/92	53	12.0	18.1	16.8	15.3
01/07/92	54	12.0	16.7	15.0	15.3
03/07/92	56	12.0	16.3	15.0	17.3
06/07/92	59	8.5	17.7	14.0	14.3
18/07/92	71	7.0	17.3	16.5	15.8
20/07/92	73	10.5	17.3	15.3	16.0
21/07/92	74	11.0	18.3	14.8	16.3
22/07/92	75	6.5	17.0	15.3	15.3
23/07/92	76	5.5	17.5	17.8	15.5
24/07/92	77	9.0	18.0	16.0	16.0
27/07/92	80	13.5	18.0	16.0	16.0
28/07/92	81	15.5	18.0	19.0	16.0
29/07/92	82	19.5	20.8	19.8	17.0
30/07/92	83	10.5	19.0	20.8	17.8
31/07/92	84	8.0	16.7	14.0	15.3
02/08/92	86	6.0	18.0	20.0	16.0
05/08/92	89	8.5	18.5	19.5	17.0
07/08/92	91		20.3	20.0	17.3
08/08/92	92		16.5	14.3	15.8
09/08/92	93	8.5	17.8	17.8	16.3
10/08/92	94	13.0	17.0	13.5	15.8
12/08/92	96	10.0	16.8	12.3	15.8
14/08/92	98	13.0	14.8	12.0	15.3
16/08/92	100	17.0	15.3	13.0	15.7
19/08/92	103	18.5	17.5	16.8	16.0
20/08/92	104				
04/09/92	119	13.5	20.3	16.5	16.3
07/09/92	122		21.3	16.5	17.0
08/09/92	123	21.0	22.8	16.5	17.0
09/09/92	124	22.0	22.8	16.5	17.1
10/09/92	125	20.5	21.5	16.9	17.2
11/09/92	126	21.5	23.0	16.8	17.3
14/09/92	129	17.0	21.0	16.7	17.4
15/09/92	130	18.5	23.0	17.1	17.5
16/09/92	131	23.5	21.8	16.6	17.1
17/09/92	132	25.5	22.5	16.8	17.3
18/09/92	133	20.0	23.3	17.3	17.5
21/09/92	136	24.5	24.3	21.0	20.0
25/09/92	140	14.0	19.8	18.0	17.3
26/09/92	141	11.0	18.8	16.5	16.5
28/09/92	143	17.0	21.3	15.9	17.1
29/09/92	144	18.5	24.5	17.4	18.0
30/09/92	145	20.0	23.3	17.4	17.8

TABLA Nro. 132 - SISTEMA MACHAGAI
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	TEMPERATURAS DIURNAS			
		MEDIA AMBIENTE DIARIA	MEDIA CRUDO DIARIA	MEDIA EFLUENTE DIARIA	MEDIA LAGUNA DIARIA
01/10/92	146	22.5	22.5	17.6	18.0
02/10/92	147	21.0	28.3	17.5	18.0
05/10/92	150	23.0	27.5	17.7	18.2
07/10/92	152	14.5	25.8	17.5	18.0
08/10/92	153	17.0	29.4	17.6	18.0
09/10/92	154	19.5	25.3	18.0	18.0
13/10/92	158	23.0	24.5	18.0	18.0
14/10/92	159	25.5	26.8	18.0	18.2
15/10/92	160	29.0	28.5	17.5	18.5
16/10/92	161	21.5	26.5	17.8	18.5
21/10/92	166	16.5	27.8	16.5	17.0
22/10/92	167	18.0	26.5	17.0	17.5
23/10/92	168	25.5	25.5	18.0	17.5
26/10/92	171	23.5	28.3	17.6	18.0
27/10/92	172	25.5	29.0	17.0	17.5
28/10/92	173		27.5	18.1	17.8
29/10/92	174	14.5	26.8	18.2	17.8
30/10/92	175	18.0	24.5	18.2	17.8
02/11/92	178	24.0	28.8	18.5	18.0
03/11/92	179	17.0	29.8	18.5	18.0
04/11/92	180	14.0	31.8	18.6	18.0
05/11/92	181	13.5	28.5	18.6	18.0

TABLA Nro. 133 - SISTEMA MACHAGAI
 TEMPERATURAS MEDIAS SEMANALES
 30/6/92 - 5/11/92

TEMPERATURA		
AMBIENTE °C	CRUDO °C	LAGUNA °C
11.1	17.2	15.6
8.8	17.3	15.9
9.1	17.8	15.8
11.9	18.5	16.4
10.0	18.0	16.4
14.6	16.1	15.7
13.5	20.8	16.6
20.4	22.2	17.2
22.4	23.0	17.9
14.0	19.9	17.0
21.0	25.2	18.0
17.0	26.8	18.0
24.8	26.6	18.3
20.9	27.0	17.5
20.5	27.3	17.8
14.8	30.0	18.0

TABLA Nro. 134 - SISTEMA MACHAGAI
pH

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
30/06/92	53	9.00	8.2	7.6	7.9
	53	12.00	8.3	7.5	7.9
	53	14.00	8.0	7.6	8.0
	53	16.00	8.0	7.7	7.8
01/07/92	54	8.10	8.0	7.7	8.0
	54	12.00	8.2	7.6	7.9
	54	14.00	8.4	7.5	7.8
	54	16.00			
03/07/92	56	8.30	8.1	7.8	7.8
	56	12.00	8.2	7.8	7.8
	56	14.00	8.4	7.8	7.9
	56	16.00	8.4		7.9
06/07/92	59	11.30	7.9	7.6	7.6
	59	14.00	8.1	7.5	7.7
	59	16.00	8.0	7.5	7.6
	59				
18/07/92	71	10.00	7.8	7.7	8.0
	71	12.00	8.0	7.7	7.8
	71	14.00	8.2	7.7	7.9
	71	16.00	8.0	7.6	8.0
20/07/92	73	10.20	7.8	7.5	7.8
	73	12.00	8.0	7.6	7.9
	73	14.00	7.6	7.7	8.0
	73	16.00	8.2	7.6	7.7
21/07/92	74	9.00	8.0	7.3	7.8
	74	12.00	8.0	7.6	7.7
	74	14.00	8.2	7.5	7.8
	74	16.00	8.1	7.6	7.9
22/07/92	75	9.10	8.2	7.7	7.9
	75	12.00	8.9	7.6	7.9
	75	14.00	8.0	7.6	8.0
	75	16.00	8.4	7.6	7.8
23/07/92	76	10.20	7.9	7.6	7.9
	76	12.00	8.0	7.5	8.0
	76	14.00	8.4	7.7	7.1
	76	16.00	8.0	7.7	7.8
24/07/92	77	15.00	8.0	7.6	7.8
	77	18.00	8.4	7.6	7.8
	77				
	77				
27/07/92	80	16.00	8.0	6.8	7.8
	80	18.00	8.2	6.9	7.8
	80				
	80				

TABLA Nro. 134 - SISTEMA MACHAGAI
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
28/07/92	81	18.00	8.0		
	81				
	81				
	81				
29/07/92	82	10.30	8.4	7.6	7.9
	82	12.00	8.2	7.6	7.8
	82	14.00	8.0	7.6	8.0
	82	16.00	8.0	7.6	7.9
30/07/92	83	10.30	7.8	7.6	7.9
	83	12.00	8.2	7.5	7.8
	83	14.00	8.4	7.5	7.8
	83	16.00	8.0	7.5	7.6
31/07/92	84	13.00	8.4	7.5	7.9
	84	16.00	8.2	7.5	7.8
	84	18.00	8.0	7.5	7.7
	84				
02/08/92	86	16.00	8.0	7.6	7.9
	86	18.00	8.1	7.6	7.8
	86				
	86				
05/08/92	89	12.15	8.0	7.9	8.0
	89	14.00	8.4	7.6	7.9
	89	18.00			
	89				
07/08/92	91	13.30	8.3	7.6	8.0
	91	16.00	8.2	7.6	7.9
	91	18.00	8.0	7.5	8.0
	91				
08/08/92	92	9.00	8.0	7.5	7.6
	92	12.00	8.2	7.5	7.8
	92	14.00	7.9	7.5	8.0
	92	16.00	7.9	7.5	7.9
09/08/92	93	9.30	8.0	7.6	7.9
	93	12.00	7.8	7.5	7.8
	93	14.00	8.2	7.6	7.9
	93	16.00	8.1	7.8	7.9
10/08/92	94	8.00	8.0	7.6	7.9
	94	12.00	8.1	7.6	7.9
	94	14.00	8.1	7.6	7.8
	94	16.00	8.0	7.6	7.8
12/08/92	96	8.30	8.1	7.4	7.8
	96	12.00	8.0	7.0	7.7
	96	14.00	7.9	7.3	7.8
	96	16.00	8.0	6.9	7.9

TABLA Nro. 134 - SISTEMA MACHAGAI
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
14/08/92	98	10.00	8.0	7.4	7.9
	98	12.00	8.1	7.3	7.8
	98	14.00	7.9	7.9	7.5
	98	16.00	8.0	7.8	7.5
16/08/92	100	14.00	8.0	7.6	7.9
	100	16.00	8.1	7.5	7.8
	100	18.00	8.0	7.4	7.8
	100				
19/08/92	103	8.30	8.4	7.6	7.9
	103	12.00	8.2	7.5	8.0
	103	14.00	8.0	7.2	7.8
	103	16.00	8.1	8.0	7.9
04/09/92	119	9.30	7.8	7.8	7.6
	119	12.00	7.9	7.8	7.7
	119	14.00	8.4	7.9	7.7
	119	16.00	8.2	7.7	7.7
07/09/92	122	9.15	7.6	7.8	7.7
	122	12.00	7.9	7.9	7.5
	122	14.00	8.4	7.9	7.5
	122	16.00	8.6	7.8	7.6
08/09/92	123	9.45	7.6	7.9	7.6
	123	12.00	8.4	8.0	7.7
	123	14.00	8.6	7.8	7.8
	123	16.00	7.9	7.7	7.6
09/09/92	124	9.35	8.2	7.7	7.8
	124	12.00	8.4	7.6	7.7
	124	14.00	8.6	7.6	7.8
	124	15.30	8.0	7.6	7.9
10/09/92	125	9.30	7.8	7.9	7.6
	125	12.00	7.9	7.8	7.7
	125	14.00	8.2	7.9	7.6
	125	16.00	8.4	8.2	7.6
11/09/92	126	9.35	7.8	8.2	7.5
	126	12.00	7.9	8.4	7.4
	126	14.00	7.8	8.4	7.5
	126	16.00	7.7	8.6	7.5
14/09/92	129	9.10	7.9	8.4	7.8
	129	12.00	8.2	8.5	7.6
	129	14.00	8.4	8.9	7.6
	129	16.00	8.2	8.7	7.4
15/09/92	130	9.20	7.6		7.9
	130	12.00	8.5		7.7
	130	14.00	8.8		7.6
	130	16.00	8.3		7.8

TABLA Nro. 134 - SISTEMA MACHAGAI
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
16/09/92	131	9.15	7.8	8.2	7.6
	131	12.00	8.4	8.0	7.7
	131	14.00	8.8	8.5	7.6
	131	16.00	8.3	8.7	7.6
17/09/92	132	9.15	7.6	8.4	7.6
	132	12.00	7.9	8.2	7.5
	132	14.00	8.6	8.4	7.7
	132	16.00	8.7	8.7	7.6
18/09/92	133	9.20	8.2	8.0	7.5
	133	12.00	7.9	8.7	7.6
	133	14.00	7.8	8.4	7.5
	133	16.00	7.8	8.9	7.4
21/09/92	136	9.45	7.9	7.6	7.8
	136	12.00	7.8	7.8	7.6
	136	14.00	8.2	7.8	7.6
	136	16.00	7.8	7.8	7.7
25/09/92	140	10.00	8.0		7.5
	140	12.30	7.9	7.2	7.4
	140	14.00	8.4	7.2	7.5
	140	16.00	8.4	7.3	7.6
26/09/92	141	9.10	7.9	8.0	7.6
	141	12.00	7.7	8.2	7.5
	141	14.00	8.4	8.2	7.8
	141	16.00	8.2	8.4	7.9
28/09/92	143	9.15	7.9	7.5	7.6
	143	12.00	7.8	7.6	7.5
	143	14.00	7.9	7.6	7.5
	143	16.00	7.9	7.6	7.6
29/09/92	144	9.20	8.0	8.4	7.6
	144	12.00	8.2	8.6	7.6
	144	14.00	8.0	8.2	7.4
	144	16.00	7.9	8.5	7.8
30/09/92	145	9.30	7.7	8.4	7.6
	145	12.00	7.8	8.5	7.7
	145	14.00	8.4	8.6	7.7
	145	16.00	8.2	8.4	7.6
01/10/92	146	9.15	8.2	8.4	7.9
	146	12.00	8.4	8.9	7.7
	146	14.00	8.3	9.2	7.8
	146	16.00	8.6	8.8	7.7
02/10/92	147	9.15	8.2	8.4	7.7
	147	12.00	8.4	8.6	7.8
	147	14.00	8.3	8.6	7.8
	147	16.00	8.5	8.5	7.8
07/10/92	152	9.15	8.4	8.6	7.6
	152	12.00	8.5	8.6	7.8
	152	14.00	8.5	8.4	7.8
	152	16.00	8.5	8.5	7.5

TABLA Nro. 135 - SISTEMA MACHAGAI

pH

FECHA	DIA OPERATIVO	pH CRUDO DIARIO	pH EFLUENTE DIARIO	pH LAGUNA DIARIO
30/06/92	53	8.1	7.6	7.9
01/07/92	54	8.2	7.6	7.9
03/07/92	56	8.3	7.8	7.9
06/07/92	59	8.0	7.5	7.6
18/07/92	71	8.0	7.7	7.9
20/07/92	73	7.9	7.6	7.9
21/07/92	74	8.1	7.5	7.8
22/07/92	75	8.4	7.6	7.9
23/07/92	76	8.1	7.6	7.7
24/07/92	77	8.2	7.6	7.8
27/07/92	80	8.1	6.9	7.8
28/07/92	81	8.0		
29/07/92	82	8.2	7.6	7.9
30/07/92	83	8.1	7.5	7.8
31/07/92	84	8.2	7.5	7.8
02/08/92	86	8.1	7.6	7.9
05/08/92	89	8.2	7.8	8.0
07/08/92	91	8.2	7.6	8.0
08/08/92	92	8.0	7.5	7.8
09/08/92	93	8.0	7.6	7.9
10/08/92	94	8.1	7.6	7.9
12/08/92	96	8.0	7.2	7.8
14/08/92	98	8.0	7.6	7.7
16/08/92	100	8.0	7.5	7.8
19/08/92	103	8.2	7.6	7.9
20/08/92	104			
04/09/92	119	8.1	7.8	7.7
07/09/92	122	8.1	7.9	7.6
08/09/92	123	8.1	7.9	7.7
09/09/92	124	8.3	7.6	7.8
10/09/92	125	8.1	8.0	7.6
11/09/92	126	7.8	8.4	7.5
14/09/92	129	8.2	8.6	7.6
15/09/92	130	8.3		7.8
16/09/92	131	8.3	8.4	7.6
17/09/92	132	8.2	8.4	7.6
18/09/92	133	7.9	8.5	7.5
21/09/92	136	7.9	7.8	7.7
25/09/92	140	8.2	7.2	7.5
26/09/92	141	8.1	8.2	7.7
28/09/92	143	7.9	7.6	7.6
29/09/92	144	8.0	8.4	7.6
30/09/92	145	8.0	8.5	7.7
01/10/92	146	8.4	8.8	7.8
02/10/92	147	8.4	8.5	7.8
07/10/92	152	6.5	8.5	7.7

TABLA Nro. 136 - SISTEMA MACHAGAI
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
30/06/92	53	9.00		
	53	12.00		
	53	14.00		
	53	16.00		
01/07/92	54	8.10	5.0	2.0
	54	12.00	5.0	2.3
	54	14.00	5.6	2.0
	54	16.00		
03/07/92	56	8.30	6.0	2.8
	56	12.00	6.4	3.2
	56	14.00	7.0	3.4
	56	16.00		3.0
06/07/92	59	11.30		
	59	14.00		
	59	16.00		
	59			
18/07/92	71	10.00	5.0	2.8
	71	12.00	5.6	2.3
	71	14.00	6.0	3.4
	71	16.00	8.0	3.0
20/07/92	73	10.20	5.0	3.0
	73	12.00	5.5	4.0
	73	14.00	5.0	3.5
	73	16.00	6.0	3.2
21/07/92	74	9.00	4.0	2.3
	74	12.00	5.6	2.4
	74	14.00	6.0	2.3
	74	16.00	5.5	2.0
22/07/92	75	9.10	4.0	2.4
	75	12.00	5.2	2.6
	75	14.00	4.0	3.0
	75	16.00	5.4	3.2
23/07/92	76	10.20	5.0	2.6
	76	12.00	5.5	2.8
	76	14.00	5.7	2.8
	76	16.00	5.8	2.9
24/07/92	77	15.00	5.0	2.4
	77	18.00	5.0	2.6
	77			
	77			
27/07/92	80	16.00	5.0	2.0
	80	18.00	5.4	2.1
	80			
	80			

TABLA Nro. 136 - SISTEMA MACHAGAI
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
28/07/92	81	18.00	6.0	3.0
	81			
	81			
	81			
29/07/92	82	10.30	5.0	2.4
	82	12.00	6.3	2.6
	82	14.00	6.6	2.4
	82	16.00	6.4	3.0
30/07/92	83	10.30	5.6	3.0
	83	12.00	6.1	2.9
	83	14.00	6.3	2.7
	83	16.00	6.2	2.4
31/07/92	84	13.00	5.0	2.1
	84	16.00	6.1	2.3
	84	18.00	6.4	2.1
	84			
02/08/92	86	16.00		
	86	18.00		
	86			
	86			
05/08/92	89	12.15	6.0	3.0
	89	14.00	6.8	3.4
	89	18.00		
	89			
07/08/92	91	13.30	6.0	3.0
	91	16.00	6.5	3.5
	91	18.00	6.0	2.4
	91			
08/08/92	92	9.00	5.3	2.6
	92	12.00	7.0	2.8
	92	14.00	7.3	2.4
	92	16.00	7.4	3.0
09/08/92	93	9.30	6.0	1.9
	93	12.00	5.4	2.0
	93	14.00	5.3	2.3
	93	16.00	5.3	3.4
10/08/92	94	8.00	5.3	2.3
	94	12.00	5.0	2.1
	94	14.00	5.1	1.9
	94	16.00	4.8	2.0
12/08/92	96	8.30		
	96	12.00		
	96	14.00		
	96	16.00		

TABLA Nro. 136 - SISTEMA MACHAGAI
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
14/08/92	98	10.00	4.6	2.1
	98	12.00	5.1	2.7
	98	14.00	5.2	3.2
	98	16.00	4.8	3.4
16/08/92	100	14.00	5.0	2.3
	100	16.00	5.1	2.7
	100	18.00	5.4	2.6
	100			
19/08/92	103	8.30	4.8	1.9
	103	12.00	5.5	2.3
	103	14.00	5.2	2.2
	103	16.00	4.9	2.9
04/09/92	119	9.30	5.5	2.4
	119	12.00	7.8	3.0
	119	14.00	7.0	2.4
	119	16.00	6.8	2.9
07/09/92	122	9.15	5.0	2.6
	122	12.00	5.8	2.4
	122	14.00	5.9	2.4
	122	16.00	12.0	2.5
08/09/92	123	9.45	5.6	2.4
	123	12.00	5.8	2.6
	123	14.00	6.2	2.2
	123	16.00	6.2	2.4
09/09/92	124	9.35	5.8	2.6
	124	12.00	7.2	2.4
	124	14.00	6.5	2.5
	124	15.30	6.8	2.6
10/09/92	125	9.30	5.6	2.8
	125	12.00	6.7	2.4
	125	14.00	6.2	3.0
	125	16.00	6.3	2.6
11/09/92	126	9.35	6.4	2.5
	126	12.00	6.8	2.8
	126	14.00	7.8	2.7
	126	16.00	7.6	2.4
14/09/92	129	9.10	7.5	2.6
	129	12.00	8.0	2.9
	129	14.00	8.4	3.5
	129	16.00	7.7	2.8
15/09/92	130	9.20	8.0	2.5
	130	12.00	7.6	2.3
	130	14.00	7.9	2.4
	130	16.00		2.5

TABLA Nro. 136 - SISTEMA MACHAGAI
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
16/09/92	131	9.15	6.0	2.8
	131	12.00	6.8	2.6
	131	14.00	6.9	2.5
	131	16.00	8.2	
17/09/92	132	9.15	6.2	2.7
	132	12.00	7.8	2.8
	132	14.00	8.8	3.5
	132	16.00	6.7	2.8
18/09/92	133	9.20	5.7	3.1
	133	12.00	6.2	2.8
	133	14.00	8.4	3.2
	133	16.00	8.8	3.3
21/09/92	136	9.45	6.5	2.4
	136	12.00	6.5	2.4
	136	14.00	6.4	2.3
	136	16.00	6.5	2.5
25/09/92	140	10.00	8.0	8.8
	140	12.30	7.8	7.5
	140	14.00	7.6	8.0
	140	16.00	7.9	6.0
26/09/92	141	9.10	8.7	5.5
	141	12.00	8.5	4.8
	141	14.00	8.2	6.0
	141	16.00	8.5	5.5
28/09/92	143	9.15	6.8	4.0
	143	12.00	6.6	4.2
	143	14.00	6.7	4.0
	143	16.00	7.0	3.9
29/09/92	144	9.20	6.0	3.5
	144	12.00	7.5	4.2
	144	14.00	7.5	3.6
	144	16.00	7.8	2.8
30/09/92	145	9.30	6.8	2.8
	145	12.00	8.4	3.0
	145	14.00	9.0	2.7
	145	16.00	8.1	3.0
01/10/92	146	9.15	7.3	3.5
	146	12.00	6.5	4.0
	146	14.00	6.8	3.2
	146	16.00	6.7	3.2
02/10/92	147	9.15	5.0	3.2
	147	12.00	6.2	2.8
	147	14.00	6.1	2.9
	147	16.00	7.0	2.8

TABLA Nro. 136 - SISTEMA MACHAGAI
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
05/10/92	150	9.20		
	150	12.50		
	150	14.00		
	150	16.00		
07/10/92	152	9.15		
	152	12.00		
	152	14.00		
	152	16.00		
08/10/92	153	9.15	4.7	3.0
	153	12.00	4.6	2.7
	153	14.00	5.0	2.7
	153	16.00	4.8	2.6
09/10/92	154	9.15	4.0	2.8
	154	12.00	4.2	3.0
	154	14.15	4.2	2.8
	154	16.30	4.1	2.8
13/10/92	158	9.15	4.5	2.5
	158	12.00	4.2	2.4
	158	14.15	4.0	3.0
	158	16.30	3.8	2.4
14/10/92	159	9.15	3.2	2.8
	159	12.00	5.0	2.8
	159	14.15	5.0	2.8
	159	16.00	6.2	2.7
15/10/92	160	9.15	3.8	2.8
	160	12.00	3.8	2.6
	160	14.15	3.6	2.7
	160	16.00	3.8	2.8
16/10/92	161	9.15	3.2	2.7
	161	12.00	3.0	2.6
	161	14.15	3.4	2.8
	161	16.00	3.2	2.8
21/10/92	166	9.15	4.5	3.2
	166	12.00	4.6	2.8
	166	14.15	4.5	3.2
	166	16.00	4.8	3.2
22/10/92	167	9.15	3.8	2.7
	167	12.00	4.0	2.6
	167	14.15	3.8	2.6
	167	16.00	3.8	2.8
23/10/92	168	9.15	4.2	2.8
	168	12.00	3.8	3.2
	168	14.15	3.7	2.8
	168	16.00	6.0	2.6

TABLA Nro. 136 - SISTEMA MACHAGAI
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	OD EFLUENTE mg/l	OD LAGUNA mg/l
26/10/92	171	9.15	3.5	2.8
	171	12.00	3.5	2.8
	171	14.15	3.5	2.8
	171	16.00	6.0	2.7
27/10/92	172	9.15	3.7	2.7
	172	12.00	3.8	2.6
	172	14.15	6.0	2.6
	172	16.00	7.0	2.6
28/10/92	173	9.15	3.8	2.5
	173	12.00	4.3	2.6
	173	14.15	4.2	2.6
	173	16.00	4.3	2.7
29/10/92	174	9.15	4.0	2.6
	174	12.00	4.2	2.7
	174	14.15	4.1	2.6
	174	16.00	3.6	2.6
30/10/92	175	9.15	3.3	2.5
	175	12.00	3.2	2.4
	175	14.15	3.5	2.2
	175	16.00	3.2	2.5
02/11/92	178	9.15	3.7	2.4
	178	12.00	3.8	2.4
	178	14.15	3.5	2.3
	178	16.00	3.6	2.5
03/11/92	179	9.15	3.6	2.3
	179	12.00	3.5	2.5
	179	14.15	3.6	2.4
	179	16.00	3.8	2.3
04/11/92	180	9.15	3.6	2.3
	180	12.00	3.5	2.4
	180	14.15	3.6	2.3
	180	16.00	3.7	2.3
05/11/92	181	9.15	3.5	2.8
	181	12.00	3.4	2.5
	181	14.15	3.4	2.5
	181	16.00	3.5	2.5

TABLA Nro. 137 - SISTEMA MACHAGAI
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	OD LAGUNA MEDIO
30/06/92	53	
01/07/92	54	2.1
03/07/92	56	3.1
06/07/92	59	
18/07/92	71	2.9
20/07/92	73	3.4
21/07/92	74	2.3
22/07/92	75	2.8
23/07/92	76	2.8
24/07/92	77	2.5
27/07/92	80	2.1
28/07/92	81	3.0
29/07/92	82	2.6
30/07/92	83	2.8
31/07/92	84	2.2
02/08/92	86	
05/08/92	89	3.2
07/08/92	91	3.0
08/08/92	92	2.7
09/08/92	93	2.4
10/08/92	94	2.1
12/08/92	96	
14/08/92	98	2.9
16/08/92	100	2.5
19/08/92	103	2.3
04/09/92	119	2.7
07/09/92	122	2.5
08/09/92	123	2.4
09/09/92	124	2.5
10/09/92	125	2.7
11/09/92	126	2.6
14/09/92	129	3.0
15/09/92	130	2.4
16/09/92	131	2.6
17/09/92	132	3.0
18/09/92	133	3.1
21/09/92	136	2.4
25/09/92	140	7.6
26/09/92	141	5.5
28/09/92	143	4.0
29/09/92	144	3.5
30/09/92	145	2.9

TABLA Nro. 137 - SISTEMA MACHAGAI
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	OD LAGUNA MEDIO
01/10/92	146	3.5
02/10/92	147	2.9
05/10/92	150	
07/10/92	152	
08/10/92	153	2.8
09/10/92	154	2.9
13/10/92	158	2.6
14/10/92	159	2.8
15/10/92	160	2.7
16/10/92	161	2.7
21/10/92	166	3.1
22/10/92	167	2.7
23/10/92	168	2.9
26/10/92	171	2.8
27/10/92	172	2.6
28/10/92	173	2.6
29/10/92	174	2.6
30/10/92	175	2.4
02/11/92	178	2.4
03/11/92	179	2.4
04/11/92	180	2.3
05/11/92	181	2.6

SISTEMA MACHAGAI

TABLA N° 138 - DBOS TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
10/6/92	184	59
18/6/92	136	38
23/6/92	96	23
24/6/92	68	36
26/6/92	105	68
27/6/92	110	33
28/6/92	63	16
29/6/92	96	38
30/6/92	77	28
13/8/92	155	89
9/9/92	83	15
26/9/92	87	31
8/10/92	152	73
16/10/92	158	
20/10/92	173	46
5/11/92	106	36
21/11/92	98	49

TABLA N° 139 - DBOS SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
10/6/92	127	34
18/6/92	97	29
25/6/92	120	52
6/7/92	98	22
13/8/92	78	59
9/9/92	62	14
26/9/92	61	26
8/10/92	60	39
5/11/92	48	19
21/11/92	52	37

SISTEMA MACHAGAI

TABLA N° 140 - DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
10/6/92	312	140
18/6/92	232	103
23/6/92	120	50
24/6/92	102	73
25/6/92	163	73
26/6/92	187	96
27/6/92	153	89
28/6/92	105	44
29/6/92	137	48
30/6/92	109	62
6/7/92	200	40
13/8/92	365	178
9/9/92	231	83
26/9/92	184	98
8/10/92	281	122
24/10/92	164	164
30/10/92	114	91
5/11/92		76
21/11/92	147	

TABLA N° 141 - SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
13/8/92	143	116
9/9/92	30	23
26/9/92	45	28
8/10/92	45	19
16/10/92	98	51
20/10/92	98	70
24/10/92	136	140
30/10/92	52	32
5/11/92	60	116
21/11/92	103	81

SISTEMA MACHAGAI

TABLA N° 142 - NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
25/6/92	8.40	4.48
6/7/92	15.68	14.56
13/8/92	24.00	11.20
9/9/92	16.24	5.36
26/9/92	24.16	10.64
8/10/92	2.65	3.24
16/10/92	2.94	0.06
20/10/92	3.00	2.21
30/10/92	3.00	1.00
21/11/92	2.90	2.21

TABLA N° 143 - NITROGENO AMONIACAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
25/6/92	3.36	1.12
13/8/92	10.08	5.60
9/9/92	10.64	2.80
26/9/92	10.64	3.64
8/10/92	0.90	1.10
16/10/92	1.00	0.20
20/10/92	0.40	0.20
30/10/92	1.00	0.35
21/11/92	4.00	0.70

TABLA N° 144 - NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
6/7/92	0.10	0.07
26/9/92	0.40	0.40
8/10/92	ND	4.00
16/10/92	1.00	0.80
24/10/92	ND	7.00
30/10/92	ND	9.00
5/11/92	ND	1.80

SISTEMA MACHAGAI

TABLA N° 145 - FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
6/7/92	8.00	8.00
13/8/92	20.00	10.00
26/9/92	26.00	15.00
8/10/92	29.70	25.00
16/10/92	14.06	16.70
20/10/92	37.20	35.40
24/10/92	23.40	14.00
30/10/92	7.80	14.00
5/11/92	27.00	21.80
21/11/92	13.00	14.10

TABLA N° 146 - FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
6/7/92	5.00	4.00
13/8/92	13.00	10.00
9/9/92	20.00	2.50
26/9/92	16.00	8.50
8/10/92	19.00	16.00
16/10/92	9.00	11.00
20/10/92	17.00	12.00
24/10/92	15.00	9.00
30/10/92	5.00	9.00
5/11/92	25.00	14.00
21/11/92	20.00	18.00

SISTEMA MACHAGAI

TABLA N° 147 - GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
29/6/92	28	12
6/7/92	32	6
13/8/92	35	18

TABLA N° 148 - ARSENICO

FECHA	CRUDO ($\mu\text{g/l}$)	EFLUENTE ($\mu\text{g/l}$)
25/6/92	ND	ND
6/7/92	40	ND
13/8/92	60	ND

NOTA: ND = no detectado
(límite detección: 4 $\mu\text{g/l}$)

SISTEMA MACHAGAI

TABLA N° 149 - SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
9/5/92	2.0	0.1	3.5	0.1
10/5/92	1.5	0.1	2.5	0.1
11/5/92	1.5	0.1	3.0	0.1
13/5/92	1.2	0.1	1.9	0.1
15/5/92	1.2	0.1	1.7	0.1
20/5/92	3.5	0.1	7.0	0.1
23/5/92	1.2	0.1	1.9	0.1
26/5/92	1.0	0.1	3.0	0.1
29/5/92	1.5	0.1	1.5	0.1
30/5/92	2.0	0.1	3.5	0.1
3/6/92	1.7	0.1	2.2	0.1
6/6/92	0.1	0.1	1.0	0.1
10/6/92	1.5	0.1	2.5	0.1
13/6/92	5.0	0.1	6.5	0.1
14/6/92	2.3	0.1	3.0	0.1
15/6/92	1.5	0.1	3.1	0.1
16/6/92	1.0	0.1	1.2	0.1
17/6/92	2.0	0.1	2.5	0.1
19/6/92	1.5	0.1	2.0	0.1
20/6/92	1.5	0.1	2.0	0.1
25/6/92	1.0	0.1	3.0	0.1
30/6/92	1.5	ND	3.2	ND
1/7/92	1.5	ND	2.3	ND
3/7/92	1.0	ND	1.5	ND
6/7/92	3.5	ND	5.0	ND
18/7/92	1.2	ND	2.0	ND
20/7/92	2.0	ND	3.0	ND
21/7/92	3.0	ND	3.5	ND
23/7/92	2.6	ND	4.0	ND
24/7/92	1.0	ND	1.5	ND
27/7/92	2.0	ND	2.8	ND
28/7/92	3.0	ND	3.8	ND
29/7/92	2.0	ND	3.0	ND
30/7/92	1.4	ND	2.3	ND
31/7/92	1.7	ND	2.5	ND

Nota: ND: No Detectado (límite de detección: 0.1 ml/l)

SISTEMA MACHAGAI

TABLA N° 149 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
2/8/92	1.5	ND	2.3	ND
5/8/92	0.9	ND	1.5	ND
7/8/92	2.3	ND	3.5	ND
8/8/92	1.5	ND	3.0	ND
9/8/92	1.6	ND	3.0	ND
10/8/92	1.0	ND	1.3	ND
12/8/92	1.4	ND	2.0	ND
14/8/92	1.0	ND	1.8	ND
16/8/92	2.0	ND	2.5	ND
19/8/92	1.0	ND	1.6	ND
4/9/92	1.5	ND	2.2	ND
7/9/92	1.8	ND	3.5	ND
8/9/92	1.2	ND	1.6	ND
9/9/92	2.4	ND	3.6	ND
10/9/92	1.8	ND	2.1	ND
11/9/92	1.2	ND	1.6	ND
14/9/92	1.8	ND	3.6	ND
15/9/92	1.6	ND	1.9	ND
16/9/92	1.2	ND	1.8	ND
17/9/92	1.4	ND	2.2	ND
18/9/92	1.6	ND	2.5	ND
21/9/92	1.5	ND	2.2	ND
25/9/92	1.0	ND	1.9	ND
26/9/92	1.0	ND	1.6	ND
28/9/92	1.0	ND	1.8	ND
29/9/92	1.2	ND	1.7	ND
30/9/92	1.2	ND	1.9	ND

Nota: ND: No Detectado (límite de detección: 0.1 ml/l)

SISTEMA MACHAGAI

TABLA N° 149 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
1/10/92	2.2	ND	3.5	ND
2/10/92	1.8	ND	2.4	ND
5/10/92	1.5	ND	2.6	ND
7/10/92	1.5	ND	2.5	ND
8/10/92	1.4	ND	2.8	ND
9/10/92	1.8	ND	3.2	ND
13/10/92	1.5	ND	2.6	ND
14/10/92	1.5	ND	3.6	0.1
15/10/92	2.0	0.2	4.2	0.1
16/10/92	1.5	ND	2.8	ND
21/10/92	2.8	0.2	4.2	0.3
22/10/92	1.4	ND	3.2	0.1
23/10/92	1.5	ND	2.8	0.1
26/10/92	1.5	ND	2.4	0.1
27/10/92	1.8	ND	3.2	ND
28/10/92	1.8	ND	3.1	0.1
29/10/92	1.2	ND	3.0	0.1
30/10/92	1.5	ND	2.5	ND
2/11/92	2.1	ND	3.5	0.1
3/11/92	1.5	ND	3.2	ND
4/11/92	1.5	ND	2.6	ND
5/11/92	1.5	ND	3.0	ND

Nota: ND: No Detectado (límite de detección: 0.1 ml/l)

SISTEMA MACHAGAI

TABLA N° 150 - MICROORGANISMOS INDICADORES

FECHA	PARAMETRO (NMP/100 ml)			
	COLITOTALES		COLIFECALES	
	ENTRAD	SALIDA	ENTRADA	SALIDA
11/5/92	9.2E+05	2.7E+04	4.0E+04	<2.0E+03
27/6/92	2.3E+06	4.1E+05	1.4E+05	3.0E+03
25/8/92	4.3E+07	1.6E+06	4.9E+06	8.3E+04
8/10/92	4.2E+07	2.5E+06	3.9E+06	7.0E+04
16/10/92	4.0E+07	2.6E+06	3.4E+06	2.3E+05
20/10/92	5.5E+07	4.9E+06	5.2E+06	7.8E+04
24/10/92	5.2E+07	7.3E+06	4.8E+06	1.1E+05
30/10/92	4.7E+07	3.4E+06	4.2E+06	1.2E+05
5/11/92	4.6E+07	7.2E+06	4.6E+06	2.6E+05
21/11/92	8.0E+07	8.2E+06	6.7E+06	1.2E+05

SISTEMA MACHAGAI

TABLA N° 151 - REMOCIONES DE DBO5 TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
10/6/92	184	59	67.9
18/6/92	136	38	72.1
(a)	90	42	53.3
(b)	87	29	66.7
13/8/92	155	89	42.6
9/9/92	83	15	81.9
26/9/92	87	31	64.4
8/10/92	152	73	52.0
20/10/92	173	46	73.4
5/11/92	106	36	66.0
21/11/92	98	49	50.0

NOTAS:

- (a) promedio días 23 - 26/6/92.
(b) promedio días 27 - 30/6/92.

TABLA N° 152 - REMOCIONES DE DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
10/6/92	127	34	73.2
18/6/92	97	29	70.1
25/6/92	120	52	56.7
6/7/92	98	22	77.6
13/8/92	78	59	24.4
9/9/92	62	14	77.4
26/9/92	61	26	57.4
8/10/92	60	39	35.0
5/11/92	48	19	60.4
21/11/92	52	37	28.8

SISTEMA MACHAGAI

TABLA N° 153 - REMOCIONES DE DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
10/6/92	312	140	55.1
18/6/92	232	103	55.6
(a)	143	73	49.0
(b)	100	61	39.0
6/7/92	200	40	80.0
13/8/92	365	178	51.2
9/9/92	231	83	64.1
26/9/92	184	98	46.7
8/10/92	281	122	56.6
24/10/92	164	164	0.0
30/10/92	114	91	20.2

NOTAS:

- (a) promedio días 23 - 26/6/92.
- (b) promedio días 27 - 30/6/92.

TABLA N° 154 - REMOCIONES SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
13/8/92	143	116	18.9
9/9/92	30	23	23.3
26/9/92	45	28	37.8
8/10/92	45	19	57.8
16/10/92	98	51	48.0
20/10/92	98	70	28.6
24/10/92	136	140	0.0
30/10/92	52	32	38.5
5/11/92	60	116	0.0
21/11/92	103	81	21.4

SISTEMA MACHAGAI

TABLA N° 155 - REMOCIONES DE NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
25/6/92	8.40	4.48	46.7
6/7/92	15.68	14.56	7.1
13/8/92	24.00	11.20	53.3
9/9/92	16.24	5.36	67.0
26/9/92	24.16	10.64	56.0
8/10/92	2.65	3.24	0.0
16/10/92	2.94	0.06	98.0
20/10/92	3.00	2.21	26.3
30/10/92	3.00	1.00	66.7
21/11/92	2.90	2.21	23.8

TABLA N° 156 - REMOCIONES DE NITROGENO AMONIAAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
25/6/92	3.36	1.12	66.7
13/8/92	10.08	5.60	44.4
9/9/92	10.64	2.80	73.7
26/9/92	10.64	3.64	65.8
8/10/92	0.90	1.10	0.0
16/10/92	1.00	0.20	80.0
20/10/92	0.40	0.20	50.0
30/10/92	1.00	0.35	65.0
21/11/92	4.00	0.70	82.5

TABLA N° 157 - REMOCIONES DE NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
6/7/92	0.10	0.07	30.0
26/9/92	0.40	0.40	0.0
8/10/92	ND	4.00	0.0
16/10/92	1.00	0.80	20.0
24/10/92	ND	7.00	0.0
30/10/92	ND	9.00	0.0
5/11/92	ND	1.80	0.0

SISTEMA MACHAGAI

TABLA N° 158 - REMOCIONES DE FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
6/7/92	8.00	8.00	0.0
13/8/92	20.00	10.00	50.0
26/9/92	26.00	15.00	42.3
8/10/92	29.70	25.00	15.8
16/10/92	14.06	16.70	0.0
20/10/92	37.20	35.40	4.8
24/10/92	23.40	14.00	40.2
30/10/92	7.80	14.00	0.0
5/11/92	27.00	21.80	19.3
21/11/92	13.00	14.10	0.0

TABLA N° 159 - REMOCIONES DE FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
6/7/92	5.00	4.00	20.0
13/8/92	13.00	10.00	23.1
9/9/92	20.00	2.50	87.5
26/8/92	16.00	8.50	46.9
8/10/92	19.00	16.00	15.8
16/10/92	9.00	11.00	0.0
20/10/92	17.00	12.00	29.4
24/10/92	15.00	9.00	40.0
30/10/92	5.00	9.00	0.0
5/11/92	25.00	14.00	44.0
21/11/92	20.00	18.00	10.0

SISTEMA MACHAGAI

TABLA N° 160 - REMOCIONES DE GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
29/6/92	28	12	57.1
6/7/92	32	6	81.3
13/8/92	35	18	48.6

TABLA N° 161 - REMOCIONES DE ARSENICO

FECHA	CRUDO (µg/l)	EFLUENTE (µg/l)	REMOCION PORCENTUAL
6/7/92	40	ND	90.0
13/8/92	6	ND	33.3

NOTA: ND = no detectado (límite detección: 4 µg/l)

SISTEMA MACHAGAI

TABLA N° 162 - REMOCIONES DE SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	EFLUENTE	REMOCION (%)	CRUDO	EFLUENTE	REMOCION (%)
(a)	1.6	0.1	93.8	2.7	0.1	96.3
15/5/92	1.2	0.1	91.7	1.7	0.1	94.1
(b)	2.4	0.1	95.8	4.5	0.1	97.8
(c)	1.5	0.1	93.3	2.7	0.1	96.3
(d)	0.9	0.1	88.9	1.6	0.1	93.8
(e)	2.9	0.1	96.6	4.0	0.1	97.5
(f)	1.5	0.1	93.3	2.3	0.1	95.7
(g)	1.5	0.1	93.3	2.0	0.1	95.0
25/6/92	1.0	0.1	90.0	3.0	0.1	96.7

Notas:

- (a) promedio días 9 a 13/5/92.
- (b) promedio días 20 y 23/5/92.
- (c) promedio días 26 a 30/5/92.
- (d) promedio días 3 y 6/6/92.
- (e) promedio días 10 a 14/6/92.
- (f) promedio días 15 a 17/6/92.
- (g) promedio días 11 a 14/9/92.

SISTEMA MACHAGAI

TABLA N° 162 - REMOCIONES DE SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	EFLUENTE	REMOCION (%)	CRUDO	EFLUENTE	REMOCION (%)
(h)	1.5	ND	93.3	2.8	ND	96.4
(i)	2.3	ND	95.7	3.3	ND	97.0
(j)	2.1	ND	95.2	2.8	ND	96.4
(k)	1.8	ND	94.4	2.8	ND	96.4
(l)	2.1	ND	95.2	3.1	ND	96.8
(m)	1.6	ND	93.8	2.4	ND	95.8
5/8/92	0.9	ND	88.9	1.5	ND	93.3
(n)	1.6	ND	93.8	2.7	ND	96.3
(o)	1.2	ND	91.7	1.9	ND	94.7

Notas: (h) promedio días 30/6 y 1/7/92.
 (i) promedio días 3 y 6/7/92.
 (j) promedio días 18 a 21/7/92.
 (k) promedio días 23 y 24/7/92.
 (l) promedio días 27 a 30/7/92.
 (m) promedio días 31/7 y 2/8/92.
 (n) promedio días 7 a 10/8/92.
 (o) promedio días 12 y 14/8/92.

SISTEMA MACHAGAI

TABLA N° 162 - REMOCIONES DE SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	EFLUENTE	REMOCION (%)	CRUDO	EFLUENTE	REMOCION (%)
(p)	1.5	ND	93.3	2.1	ND	95.2
(q)	1.5	ND	93.3	2.4	ND	95.8
(r)	1.8	ND	94.4	2.4	ND	95.8
(s)	1.5	ND	93.3	2.4	ND	95.8
(t)	1.6	ND	93.8	2.4	ND	95.8
(u)	1.0	ND	90.0	1.8	ND	94.4
(v)	1.6	ND	93.8	2.4	ND	95.8

Notas: (p) promedio días 16 y 19/8/92.
 (q) promedio días 4 a 8/9/92.
 (r) promedio días 9 a 11/9/92.
 (s) promedio días 14 a 17/9/92.
 (t) promedio días 18 a 21/9/92.
 (u) promedio días 25 a 29/9/92.
 (v) promedio días 29/9 a 2/10/92.

SISTEMA MACHAGAI

TABLA N° 162 - REMOCIONES DE SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	EFLUENTE	REMOCION (%)	CRUDO	EFLUENTE	REMOCION (%)
5/10/92	1.5	ND	93.3	2.6	ND	96.2
(w)	1.6	ND	93.8	2.8	ND	96.4
13/10/92	1.5	ND	93.3	2.6	ND	96.2
(x)	1.7	0.1	94.1	3.5	0.1	97.1
(y)	1.9	0.1	94.7	3.4	0.2	94.1
(z)	1.7	ND	94.1	2.8	0.1	96.4
(z')	1.5	ND	93.3	2.9	0.1	96.6
(z'')	1.7	ND	94.1	3.1	0.1	96.8

NOTAS: (w) promedio días 7 a 9/10/92.
 (x) promedio días 14 a 16/10/92.
 (y) promedio días 21 a 23/10/92.
 (z) promedio días 26 y 27/10/92.
 (z') promedio días 28 a 30/10/92.
 (z'') promedio días 2 a 5/11/92.

SISTEMA MACHAGAI

TABLA N° 163 - REMOCIONES DE MICROORGANISMOS INDICADORES

FECHA	PARAMETRO (NMP/100 ml)					
	COLITOTALES			COLIFECALAS		
	ENTRAD	SALIDA	REMOCION (%)	ENTRAD	SALIDA	REMOCION (%)
11/5/92	9.2E+05	2.7E+04	97.1	4.0E+04	<2.0E+0	95.0
27/6/92	2.3E+06	4.1E+05	82.2	1.4E+05	3.0E+03	97.9
25/8/92	4.3E+07	1.6E+06	96.3	4.9E+06	8.3E+04	98.3
8/10/92	4.2E+07	2.5E+06	94.0	3.9E+06	7.0E+04	98.2
16/10/92	4.0E+07	2.6E+06	93.5	3.4E+06	2.3E+05	93.2
20/10/92	5.5E+07	4.9E+06	91.1	5.2E+06	7.8E+04	98.5
24/10/92	5.2E+07	7.3E+06	86.0	4.8E+06	1.1E+05	97.7
30/10/92	4.7E+07	3.4E+06	92.8	4.2E+06	1.2E+05	97.1
5/11/92	4.6E+07	7.2E+06	84.3	4.6E+06	2.6E+05	94.3
21/11/92	8.0E+07	8.2E+06	89.8	6.7E+06	1.2E+05	98.2

SISTEMA MACHAGAI

TABLA N° 164 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA (mg/l)	REMOCION PORCENTUAL
08/10/92	152	119	21.7
20/10/92	173	117	32.4
05/11/92	106	87	17.9
21/11/92	98	59	39.8

TABLA N° 165 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA (mg/l)	REMOCION PORCENTUAL
08/10/92	60	43	28.3
05/11/92	48	23	52.1
21/11/92	52	43	17.3

TABLA N° 166 - REMOCIONES DE DQO EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA (mg/l)	REMOCION PORCENTUAL
08/10/92	281	131	53.4
24/10/92	164	134	18.3
30/10/92	114	112	1.8
21/11/92	147	87	40.8

SISTEMA MACHAGAI

TABLA N° 167 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA (mg/l)	REMOCION PORCENTUAL
08/10/92	45	33	26.7
16/10/92	98	71	27.6
20/10/92	98	55	43.9
24/10/92	136	135	0.7
30/10/92	52	36	30.8
05/11/92	60	130	0.0
21/11/92	103	88	14.6

TABLA N° 168 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA (mg/l)	REMOCION PORCENTUAL
08/10/92	2.65	2.39	9.8
16/10/92	2.94	0.06	98.0
20/10/92	3.00	3.00	0.0
30/10/92	3.00	1.20	60.0
21/11/92	2.90	2.88	0.7

TABLA N° 169 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA (mg/l)	REMOCION PORCENTUAL
08/10/92	29.70	16.75	43.6
16/10/92	14.06	15.60	0.0
24/10/92	23.40	18.40	21.4
30/10/92	7.80	13.30	0.0
05/11/92	27.00	16.30	39.6
21/11/92	13.00	14.50	0.0

SISTEMA MACHAGAI

TABLA N° 170 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 1°

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION 1°		CRUDO	SALIDA LAG. REMOCION 1°	
	(NMP/100ml)	(NMP/100ml)	(%)	(NMP/100ml)	(NMP/100ml)	(%)
08/10/92	4.2E+07	8.1E+06	80.7	3.9E+06	1.0E+05	97.4
20/10/92	5.5E+07	1.3E+07	76.4	5.2E+06	1.1E+06	78.8
24/10/92	5.2E+07	2.2E+07	57.7	4.8E+06	2.0E+06	58.3
30/10/92	4.7E+07	8.0E+06	83.0	4.2E+06	1.7E+06	59.5
05/11/92	4.6E+07	1.2E+07	73.9	4.6E+06	2.0E+06	56.5
21/11/92	8.0E+07	2.1E+07	73.8	6.7E+06	1.9E+06	71.6

SISTEMA MACHAGAI

TABLA N° 171 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
08/10/92	119	73	38.7
20/10/92	117	46	60.7
05/11/92	87	36	58.6
21/11/92	59	49	16.3

TABLA N° 172 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
08/10/92	43	39	9.3
05/11/92	23	19	17.4
21/11/92	43	37	14.0

TABLA N° 173 - REMOCIONES DE DQO EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
08/10/92	131	122	6.9
24/10/92	134	164	0.0
30/10/92	112	91	18.8
05/11/92	79	76	3.8

SISTEMA MACHAGAI

**TABLA N° 174 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA 2°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
08/10/92	33	19	42.4
16/10/92	71	51	28.2
20/10/92	55	70	0.0
24/10/92	135	140	0.0
30/10/92	36	32	11.1
05/11/92	130	116	10.8
21/11/92	88	81	8.0

**TABLA N° 175 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA 2°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
08/10/92	2.39	3.24	0.0
16/10/92	0.06	0.06	0.0
20/10/92	3.00	2.21	26.3
30/10/92	1.20	1.00	16.7
21/11/92	2.88	2.21	23.3

**TABLA N° 176 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA 2°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
08/10/92	16.75	25.00	0.0
16/10/92	15.60	16.70	0.0
24/10/92	18.40	14.00	23.9
30/10/92	13.30	14.00	0.0
05/11/92	16.30	21.80	0.0
21/11/92	14.50	14.10	2.8

SISTEMA MACHAGAI

TABLA N° 177 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 2°

FECHA	PARAMETRO			PARAMETRO		
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION		CRUDO	SALIDA LAG. REMOCION	
	(NMP/100ml)	2° (NMP/100ml)	(%)	(NMP/100ml)	2° (NMP/100ml)	(%)
08/10/92	8.1E+06	2.5E+06	69.1	1.1E+05	7.0E+04	36.4
20/10/92	1.3E+07	4.9E+06	62.3	1.1E+06	7.8E+04	92.9
24/10/92	2.2E+07	7.3E+06	66.8	2.0E+06	1.1E+05	94.5
30/10/92	8.0E+06	3.4E+06	57.5	1.7E+06	1.2E+05	92.9
05/11/92	1.2E+07	7.2E+06	40.0	2.0E+06	2.6E+05	87.0
21/11/92	2.1E+07	8.2E+06	61.0	1.9E+06	1.2E+05	93.7

TABLA N° 178 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE CINETICA DE REMOCION DE MATERIA ORGANICA (K).

FECHA	DIA	DBO5 mg/l	So/S	ln (So/S)
18/6/92	1	232	1.0000	0.0000
19/6/92	2	182	1.2749	0.2427
20/6/92	3	135	1.7185	0.5415
21/6/92	4	60	3.8667	1.3524
22/6/92	5	27	8.5926	2.1509
23/6/92	6	19	12.2105	2.5023

TABLA N° 179 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE CINETICA DE REMOCION DE BACTERIAS COLIFORMES TOTALES (KbT)

FECHA	DIA	C.TOTALES NMP/100ml	No/N	ln (No/N)
18/6/92	1	2.3E+06	1.0000	0.0000
19/6/92	2	6.0E+05	3.8333	1.3437
20/6/92	3	4.0E+05	5.7500	1.7492
21/6/92	4	7.0E+04	32.8571	3.4922
22/6/92	5	7.5E+03	306.6667	5.7258
23/6/92	6	1.0E+03	2300.0000	7.7407

TABLA N° 180 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE DE REMOCION DE BACTERIAS COLIFORMES FECALIS (Kb).

FECHA	DIA	C.FECALES NMP/100ml	No/N	ln (No/N)
18/6/92	1	5.0E+04	1.0000	0.0000
19/6/92	2	2.5E+04	2.0000	0.6931
20/6/92	3	3.5E+04	1.4286	0.3567
21/6/92	4	5.5E+03	9.0909	2.2073
22/6/92	5	1.0E+03	50.0000	3.9120
23/6/92	6	<1.0E+03	---	---

TABLA N° 181 - CONSTANTE DE DESOXIGENACION (k).

DBO5	DBOu	k	TIPO DE MUESTRA
78	120	0.09	CRUDO
59	83	0.11	EFLUENTE

TABLA N° 182 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE
CINETICA DE REMOCION DE MATERIA ORGANICA (K).

FECHA ENSAYO : 8/10 - 20/10/92

TEMPERATURA : 19.5 °C

DIA	DBO5 mg/l	So/S	ln (So/S)
1	137	1.0000	0.0000
2	137	1.0000	0.0000
3	153	0.8954	-0.1105
4	169	0.8107	-0.2099
5	157	0.8726	-0.1363
6	145	0.9448	-0.0568
7	137	1.0000	0.0000
8	120	1.1417	0.1325
9	87	1.5747	0.4541
10	72	1.9028	0.6433
11	57	2.4035	0.8769
12	53	2.5849	0.9497

TABLA N° 183 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE
CINETICA DE REMOCION DE BACTERIAS COLIFORMES
TOTALES (KbT)

DIA	C.TOTALES NMP/100ml	No/N	ln (No/N)
1	2.1E+07	1.00	0.0000
2	2.8E+07	0.75	-0.2877
3	2.5E+07	0.84	-0.1744
4	2.3E+07	0.91	-0.0910
5	---	---	---
6	---	---	---
7	1.8E+07	1.17	0.1542
8	1.2E+07	1.75	0.5596
9	2.4E+06	8.75	2.1691
10	1.0E+06	21.00	3.0445
11	4.8E+05	43.75	3.7785
12	9.0E+04	233.33	5.4525

SISTEMA MACHAGAI

TABLA N° 184 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE DE REMOCION DE BACTERIAS COLIFORMES FECALES (Kb).

FECHA ENSAYO : 8/10 - 20/10/92

TEMPERATURA : 19.5 °C

DIA	C.FECALES NMP/100ml	No/N	ln (No/N)
1	2.7E+06	1.0000	0.0000
2	3.7E+06	0.7297	-0.3151
3	2.7E+06	1.0000	0.0000
4	1.7E+06	1.5882	0.4626
5	1.3E+06	2.0769	0.7309
6	1.0E+06	2.7000	0.9933
7	8.0E+05	3.3750	1.2164
8	6.7E+05	4.0299	1.3937
9	3.3E+05	8.1818	2.1019
10	5.0E+04	54.0000	3.9890
11	<= 1.0E+04	270.0000	5.5984
12	<= 2000	1350.0000	7.2079

SISTEMA MACHAGAI

TABLA N° 185 - CARACTERISTICAS DE LODOS

EDAD DE LA LAGUNA: 3 AÑOS

EDAD DE LODOS: 3 AÑOS

PROFUNDIDAD DE LODOS : 0.70 m ESPESOR ~ 0.10 m

FECHA	LUGAR	PARAMETROS	
20/5/92	MACHAGAI	SECATIVIDAD	BUENA
		RESIDUO 100/105°c	65.4 mg/g
		SOLIDOS VOLATILES	42.6 mg/g
		SOLIDOS FIJOS	12.8 mg/g
		CENIZAS (900-950 °c)	8.4 mg/g
		DQO	17 g/l
		APORTE DBO SOLUBLE	
		IVL	16.7
25/6/92	MACHAGAI	SECATIVIDAD	BUENA
		RESIDUO 100/105°c	70.8 mg/g
		SOLIDOS VOLATILES	45.1 mg/g
		SOLIDOS FIJOS	11.6 mg/g
		CENIZAS (900-950 °c)	6.7 mg/g
		DQO	85 g/l
		APORTE DBO SOLUBLE	19.5 mg/l
		IVL	24.4
20/7/92	MACHAGAI	SECATIVIDAD	BUENA
		RESIDUO 100/105°c	70 mg/g
		SOLIDOS VOLATILES	40 mg/g
		SOLIDOS FIJOS	13 mg/g
		CENIZAS (900-950 °c)	7.2 mg/g
		DQO	87 g/l
		APORTE DBO SOLUBLE	18 mg/l
		IVL	18

SISTEMA: MACHAGAI

TABLA N°: ..186.. - EXAMEN MICROBIOLOGICO DE PLANCTON

(Fecha: Noviembre 1992)

FITOPLANCTON	
Organismos Vegetales	
CHLOROPHYCEAE	
<u>Chlorella</u> sp.	1.600
<u>Pediastrum</u> sp.	400
<u>Closterium</u> sp.	200
<u>Scenedesmus</u> sp.	400
EUGLENOPHYCEAE	
<u>Euglena</u> sp.	400
<u>Phacus</u> sp.	200
CIANOPHYCEAE	
<u>Microcystis</u> sp.	200
<u>Merismopedia</u> sp.	200
ZOOPLANCTON	
Organismos Animales	
CILIATA	30
COPEPODA	50

NOTA: Examen realizado en Laboratorio de OSN

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
18/8/92	1	8.00	19	16	15
	1	12.00	20	17	15
	1	15.00			
	1	17.00	20	18	18
19/8/92	2	8.00	19	16	14
	2	12.00	19	18	17
	2	15.00	20	18	18
	2	17.00	20	18	18
20/8/92	3	8.00	19	17	16
	3	12.00	20	18	18
	3	15.00	21	18	19
	3	17.00	21	19	20
21/8/92	4	8.00	20	18	16
	4	12.00	21	19	18
	4	15.00	21	22	23
	4	17.00	21	21	23
22/8/92	5	8.00	20	18	16
	5	12.00	21	18	18
	5	15.00	21	20	20
	5	17.00	21	20	18
23/8/92	6	8.00	20	18	15
	6	12.00	21	18	17
	6	15.00	21	20	19
	6	17.00	21	20	19
24/8/92	7	8.00	21	18	16
	7	12.00	21	20	20
	7	15.00	21	19	20
	7	17.00	21	18	19
25/8/92	8	8.00	18	18	19
	8	12.00	21	19	20
	8	15.00	21	20	22
	8	17.00	21	20	22
26/8/92	9	8.00	21	19	17
	9	12.00	20	21	21
	9	15.00	21	21	23
	9	17.00	22	21	22
27/8/92	10	8.00	20	19	17
	10	12.00	22	20	21
	10	15.00	22	22	22
	10	17.00	22	22	23
28/8/92	11	8.00		20	
	11	12.00	21	20	21
	11	15.00	21	21	21
	11	17.00	20	20	20

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
29/8/92	12	8.00	19	19	19
	12	12.00	19	20	19
	12	15.00	20	20	19
	12	17.00	20	20	19
30/8/92	13	8.00	19	18	16
	13	12.00	20	20	18
	13	15.00	21	22	21
	13	17.00	21	22	20
31/8/92	14	8.00	20	18	16
	14	12.00	21	18	15
	14	15.00	20	18	16
	14	18.00	20	18	17
1/9/92	15	8.00	19	17	15
	15	12.00	19	19	17
	15	15.00	20	20	17
	15	18.00	20	20	18
2/9/92	16	8.00	19	16	14
	16	12.00	20	18	15
	16	15.00	20	18	16
	16	18.00	20	18	16
3/9/92	17	8.00	19	16	13
	17	12.00	20	17	15
	17	15.00	20	18	18
	17	18.00	20	18	18
4/9/92	18	8.00	20	17	15
	18	12.00	20	18	18
	18	15.00	21	18	18
	18	18.00	21	19	19
5/9/92	19	8.00	19	16	15
	19	12.00	20	17	18
	19	15.00	20	18	18
	19	18.00	21	19	18
6/9/92	20	8.00	20	16	15
	20	12.00	21	18	17
	20	15.00	21	19	19
	20	18.00	21	19	19
07/09/92	21	8.00	21	18	17
	21	12.00	21	18	17
	21	15.00	21	19	18
	21	18.00	21	19	19
08/09/92	22	8.00	20	16	16
	22	12.00	21	18	17
	22	15.00	21	19	18
	22	18.00	21	20	19

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
09/09/92	23	8.00	20	18	17
	23	12.00	21	19	19
	23	15.00	21	19	19
	23	18.00	22	19	19
10/09/92	24	8.00	20	16	16
	24	12.00	21	19	19
	24	15.00	21	19	19
	24	18.00	20	20	20
11/09/92	25	8.00	20	18	17
	25	12.00	21	19	19
	25	15.00	21	19	19
	25	18.00	21	20	19
12/09/92	26	8.00	21	18	17
	26	12.00	21	19	19
	26	15.00	21	19	19
	26	18.00	22	19	20
13/09/92	27	8.00	20	17	17
	27	12.00	21	18	18
	27	15.00	21	19	19
	27	18.00	21	19	20
14/09/92	28	8.00	20	18	18
	28	12.00	21	21	20
	28	15.00	22	23	24
	28	18.00	22	21	23
15/09/92	29	8.00	21	20	18
	29	12.00	21	20	20
	29	15.00	22	22	24
	29	18.00	22	22	23
16/09/92	30	8.00	22	20	18
	30	12.00	22	21	21
	30	15.00	22	23	24
	30	18.00	21	22	24
17/09/92	31	8.00	21	20	18
	31	12.00	22	21	20
	31	15.00	22	22	23
	31	18.00	22	22	22
18/09/92	32	8.00	21	20	18
	32	12.00	22	22	21
	32	15.00	22	22	23
	32	18.00	23	23	23
19/09/92	33	8.00	21	18	18
	33	12.00	22	22	21
	33	15.00	22	22	22
	33	18.00	23	22	22

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
20/09/92	34	8.00	21	19	19
	34	12.00	22	22	22
	34	15.00	23	23	24
	34	18.00	23	23	24
21/09/92	35	8.00	21	19	20
	35	12.00	23	27	23
	35	15.00	23	29	28
	35	18.00	23	26	27
22/09/92	36	8.00	21	19	18
	36	12.00	23	21	19
	36	15.00	23	22	22
	36	18.00	22	21	21
23/09/92	37	8.00	22	20	17
	37	12.00	22	22	20
	37	15.00	23	23	24
	37	18.00	22	23	21
24/09/92	38	8.00	22	20	19
	38	12.00	22	21	21
	38	15.00	23	22	24
	38	18.00	23	24	23
25/09/92	39	8.00	22	19	18
	39	12.00	22	20	18
	39	15.00	22	20	19
	39	18.00	22	21	19
26/09/92	40	8.00	22	18	16
	40	12.00	22	19	17
	40	15.00	22	21	20
	40	18.00	23	22	21
27/09/92	41	8.00	21	20	19
	41	12.00	22	22	21
	41	15.00	23	22	23
	41	18.00	23	23	25
28/09/92	42	8.00	22	19	18
	42	12.00	23	20	20
	42	15.00	23	24	22
	42	18.00	23	24	23
29/09/92	43	8.00	22	20	18
	43	12.00	23	20	20
	43	15.00	23	22	25
	43	18.00	23	22	24
30/09/92	44	8.00	22	20	18
	44	12.00	23	21	20
	44	15.00	23	24	26
	44	18.00	23	24	24

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
01/10/92	45	8.00	22	20	18
	45	12.00	23	23	24
	45	15.00	24	24	28
	45	18.00	24	24	27
02/10/92	46	8.30	21	19	18
	46	12.30	22	21	20
	46	14.30	23	25	28
	46	18.30	24	25	27
03/10/92	47	8.30	22	18	18
	47	12.30	22	20	20
	47	14.30	23	21	22
	47	18.30	23	24	25
04/10/92	48	8.30	22	19	19
	48	12.30	22	22	22
	48	14.30	24	24	27
	48	18.30	24	23	27
05/10/92	49	8.30	24	23	22
	49	12.30	24	23	22
	49	14.30	23	22	21
	49	18.30	23	22	21
06/10/92	50	8.30	22	18	18
	50	12.30	23	20	21
	50	14.30	23	23	22
	50	18.30	23	22	21
07/10/92	51	8.30	22	19	18
	51	12.30	23	20	18
	51	14.30	23	22	23
	51	18.30	23	21	22
08/10/92	52	8.30	23	19	17
	52	12.30	23	22	20
	52	14.30	23	23	26
	52	18.30	23	23	25
09/10/92	53	8.30	23	19	17
	53	12.30	23	20	19
	53	14.30	23	24	25
	53	18.30	23	24	24
10/10/92	54	8.30	23	20	20
	54	12.30	23	22	22
	54	14.30	23	24	28
	54	18.30	23	24	26
11/10/92	55	8.30	23	21	20
	55	12.30	23	23	25
	55	14.30	23	25	28
	55	18.30	24	23	26

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
12/10/92	56	8.30	24	21	22
	56	12.30	24	23	23
	56	14.30	24	28	30
	56	18.30	24	30	30
13/10/92	57	8.30	24	22	21
	57	12.30	24	24	24
	57	14.30	24	26	27
	57	18.30	24	25	29
14/10/92	58	8.30	24	23	23
	58	12.30	24.5	25	25.5
	58	14.30	25	26.5	29.5
	58	18.30	25	26	28
15/10/92	59	8.30	23	20	21
	59	12.30	24	24.5	25.5
	59	14.30	25	26	27.5
	59	18.30	25	26	27
16/10/92	60	8.30	23.5	23.5	22
	60	12.30	24	23.5	22.5
	60	14.30	25	23.5	22.5
	60	18.30	24.5	24	23
17/10/92	61	8.30	23	20.5	19.5
	61	12.30	23.5	22	22.5
	61	14.30	24.5	23.5	22.5
	61	18.30	24	24	23.5
18/10/92	62	8.30	23.5	20	18.5
	62	12.30	23.5	21	19
	62	14.30	24	22	21.5
	62	18.30	24	22	21
19/10/92	63	8.30	23.5	19	17.5
	63	12.30	26	24	27
	63	14.30	25	26.5	27.5
	63	18.30	25	26	26
20/10/92	64	8.30	23.5	20	18
	64	12.30	24	21	20
	64	14.30	24	21.5	21
	64	18.30	24	21	22
21/10/92	65	8.30	23	20	18
	65	12.30	23.5	23.5	22.5
	65	14.30	24.5	25.5	26.5
	65	18.30	24	24	26
22/10/92	66	8.30	23.5	21	20.5
	66	12.30	24	23	26
	66	14.30	24.5	26	27.5
	66	18.30	25	25.5	27

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
23/10/92	67	8.30	23	22	21.5
	67	12.30	24	24	26
	67	14.30	25.5	26.5	28
	67	18.30	25	26	27.5
24/10/92	68	8.30	23.5	21.5	21.5
	68	12.30	24	24.5	26
	68	14.30	25	27	28
	68	18.30	25.5	26	28.5
25/10/92	69	8.30	24	24.5	24
	69	12.30	25.5	26	26.5
	69	14.30	25.5	27	28
	69	18.30	26	28	28.5
26/10/92	70	8.30	24.5	25.5	24.5
	70	12.30	25.5	27.5	28
	70	14.30	26	27.5	29
	70	18.30	26	27	29
27/10/92	71	8.30	25.5	25	23
	71	12.30	25.5	28.5	31
	71	14.30	26	30.5	34.5
	71	18.30	26	31	34
28/10/92	72	8.30	25	20	22
	72	12.30	26	24.5	22.5
	72	14.30	26	24.5	24
	72	18.30	26	23	24
29/10/92	73	8.30	24.5	21	24
	73	12.30	25	22.5	24.5
	73	14.30	25.5	24.5	26
	73	18.30	25.5	25.5	26
30/10/92	74	8.30	22.5	22.5	24.5
	74	12.30	25.5	25.5	25.5
	74	14.30	26	25	26.5
	74	18.30	26	25	26
31/10/92	75	8.30	25	22.5	24.5
	75	12.30	25.5	24.5	25
	75	14.30	26	25	26.5
	75	18.30	26	25.5	27
01/11/92	76	8.30	24.5	24.5	25.5
	76	12.30	25.5	26.5	27.5
	76	14.30	26	28.5	29.5
	76	18.30	26	29	30
02/11/92	77	8.30	25	23	22
	77	12.30	25.5	24	24
	77	14.30	26	27.5	26
	77	18.30	26	27	27

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
03/11/92	78	8.30	25	24.5	20.5
	78	12.30	25.5	25	23.5
	78	14.30	25.5	25.5	24.5
	78	18.30	26	26	24
04/11/92	79	8.30	25	21.5	20
	79	12.30	25.5	22.5	22
	79	14.30	25.5	23.5	23.5
	79	18.30	25.5	24	24
05/11/92	80	8.30	24.5	20	20
	80	12.30	24.5	20.5	20.5
	80	14.30	25.5	21	22
	80	18.30	25.5	22.5	23.5
19/11/92	94	10.30	26	26	24
	94	14.30	26	26.5	27.5
	94	18.30	26	28	27
	94				
20/11/92	95	8.30	25.5	25	24
	95	12.30	26	27.5	26.5
	95	14.30	26	28.5	28
	95	18.00	26.3	28	29
21/11/92	96	8.30	25.5	24.5	24.5
	96	12.30	25.5	25.5	24.5
	96	14.30	25.5	26.5	24
	96	18.30	25	26.5	24
22/11/92	97	8.30	25	24.5	23.5
	97	12.30	25	24.5	23.5
	97	14.30	25	24.5	23.5
	97	18.30	25	24.5	24.5
23/11/92	98	8.30		24.5	24.5
	98	12.30		24.5	26.5
	98	14.30		27.5	27.5
	98	18.30		27.5	27
24/11/92	99	8.30	25	24.5	25
	99	12.30	25	24.5	25
	99	14.30	25.5	25.5	27.5
	99	18.00	25.5	26	27.5
25/11/92	100	8.30	25	25.5	25.5
	100	12.30	25.5	26	26.5
	100	14.30	25.5	27	27.5
	100	18.30	25.5	27	27.5
26/11/92	101	8.30	25	25.5	26
	101	12.30	25.5	26	27.5
	101	14.30	26	27	27.5
	101	18.30	26	27	28

TABLA Nro. 187 - SISTEMA "CATAMARCA"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	T° CRUDO °C	T° LAGUNA °C	T° EFLUENTE °C
27/11/92	102	8.30	25.5	25.5	26
	102	12.30	25.5	26.5	27.5
	102	14.30	26	27	28
	102	18.30	26	27	28
28/11/92	103	8.30	25.5	24.5	22.5
	103	12.30	26	25	25
	103	14.30	26	25	25.5
	103	18.30	26	26	26
29/11/92	104	8.30	25.5	18.5	19.5
	104	12.30	26	22	24
	104	14.30	26	23.5	26
	104	18.30	26	26	27
30/11/92	105	8.30	26	24	22.5
	105	12.30	26	24.5	25.5
	105	14.30	26	25	26.5
	105	18.30	26	23.5	28
01/12/92	106	8.30	26	24	23.5
	106	12.30	26	25.5	23
	106	14.30	26	27	24
	106	18.30	26	27.5	24
02/12/92	107	8.30	25.5	24	22.5
	107	12.30	26	26.5	24
	107	14.30	26	27.5	26
	107	18.30	26	28	27.5
03/12/92	108	8.30	25.5	24.5	23
	108	12.30	25.5	26	24.5
	108	14.30	26	27.5	26.5
	108	18.30	26	25.5	27.5
04/12/92	109	8.30	25		22.5
	109	12.30	25.5	24.5	24
	109	14.30	25.5	24	26.5
	109	18.30	25.5	24	27

TABLA Nro. 188 - SISTEMA "CATAMARCA"
TEMPERATURAS MEDIAS DIARIAS

FECHA	DIA OPERATIVO	T° AMBIENTE MEDIA °C	T° CRUDO MEDIA °C	T° LAGUNA MEDIA °C	T° EFLUENTE MEDIA °C
18/8/92	1	12.00	19.90	17.13	15.87
19/8/92	2	15.50	19.70	17.73	17.03
20/8/92	3	15.50	20.08	18.20	18.10
21/8/92	4	23.50	20.48	19.78	20.00
22/8/92	5	17.50	20.55	18.95	18.10
23/8/92	6	17.00	20.63	18.83	17.45
24/8/92	7	18.00	20.90	18.50	18.65
25/8/92	8	24.00	20.25	19.05	20.53
26/8/92	9	19.50	20.98	20.40	20.68
27/8/92	10	19.00	21.35	20.55	20.85
28/8/92	11	22.50	20.63	20.08	20.47
29/8/92	12	11.50	19.55	19.75	19.00
30/8/92	13	15.00	20.35	20.43	18.83
31/8/92	14		20.13	17.95	15.90
1/9/92	15	8.00	19.50	19.00	16.75
2/9/92	16	10.00	19.75	17.50	15.25
3/9/92	17	14.00	19.75	17.25	16.00
4/9/92	18	15.50	20.13	17.75	17.25
5/9/92	19	15.00	19.88	17.25	17.13
6/9/92	20	19.50	20.38	17.75	17.25
07/09/92	21		20.88	18.38	17.50
08/09/92	22	20.00	20.75	18.25	17.38
09/09/92	23	17.00	20.88	18.63	18.38
10/09/92	24	14.50	20.50	18.50	18.50
11/09/92	25	16.50	20.75	19.00	18.50
12/09/92	26	16.00	20.75	18.38	18.63
13/09/92	27	19.00	20.50	18.00	18.25
14/09/92	28	19.50	21.00	20.38	21.00
15/09/92	29	18.50	21.25	21.00	21.13
16/09/92	30	18.50	21.38	21.00	21.38
17/09/92	31	19.50	21.75	21.13	20.75
18/09/92	32		21.88	21.38	21.13
19/09/92	33	21.00	21.75	20.88	20.50

TABLA Nro. 188 - SISTEMA "CATAMARCA"
TEMPERATURAS MEDIAS DIARIAS (cont.)

FECHA	DIA OPERATIVO	T° AMBIENTE MEDIA °C	T° CRUDO MEDIA °C	T° LAGUNA MEDIA °C	T° EFLUENTE MEDIA °C
20/09/92	34		21.88	21.25	22.13
21/09/92	35	24.00	22.25	25.25	24.25
22/09/92	36	17.00	22.13	20.63	19.75
23/09/92	37	14.00	22.13	21.75	20.25
24/09/92	38	15.50	22.38	21.38	21.63
25/09/92	39	15.50	21.88	19.75	18.38
26/09/92	40	19.00	21.88	19.88	18.38
27/09/92	41	18.40	22.00	21.50	21.88
28/09/92	42	21.80	22.38	21.75	20.63
29/09/92	43	25.00	22.63	20.88	21.38
30/09/92	44	23.60	22.75	22.00	21.88
01/10/92	45	26.00	23.00	22.50	24.13
02/10/92	46	21.50	22.25	22.00	23.00
03/10/92	47	21.50	22.25	20.63	21.13
04/10/92	48	23.00	22.63	21.63	23.50
05/10/92	49	19.00	23.13	22.13	21.25
06/10/92	50	19.50	22.50	20.50	20.13
07/10/92	51	19.00	22.75	20.38	20.00
08/10/92	52	20.50	22.88	21.75	21.75
09/10/92	53	21.50	22.88	21.50	21.00
10/10/92	54	20.50	22.88	22.25	23.63
11/10/92	55	23.00	23.00	22.63	24.38
12/10/92	56	23.50	23.75	25.25	26.00
13/10/92	57	27.00	24.00	23.88	25.00
14/10/92	58	28.90	24.63	25.13	26.50
15/10/92	59	30.00	24.25	24.13	25.25
16/10/92	60	20.50	24.25	23.63	22.50
17/10/92	61	18.50	23.75	22.50	22.00
18/10/92	62	20.00	23.75	21.25	20.00
19/10/92	63	22.00	24.88	23.88	24.50
20/10/92	64	15.50	23.88	20.88	20.25
21/10/92	65	17.50	23.75	23.25	23.25
22/10/92	66	22.50	24.25	23.88	25.25

TABLA Nro. 188 - SISTEMA "CATAMARCA"
TEMPERATURAS MEDIAS DIARIAS (cont.)

FECHA	DIA OPERATIVO	T° AMBIENTE MEDIA °C	T° CRUDO MEDIA °C	T° LAGUNA MEDIA °C	T° EFLUENTE MEDIA °C
23/10/92	67	25.50	24.38	24.63	25.75
24/10/92	68	28.50	24.50	24.75	26.00
25/10/92	69	29.00	25.25	26.38	26.75
26/10/92	70	26.50	25.50	26.88	27.63
27/10/92	71	31.00	25.75	28.75	30.63
28/10/92	72		25.75	23.00	23.13
29/10/92	73	23.00	25.13	23.38	25.13
30/10/92	74	21.00	25.00	24.50	25.63
31/10/92	75	21.00	25.63	24.38	25.75
01/11/92	76	25.00	25.50	27.13	28.13
02/11/92	77	26.50	25.63	25.38	24.75
03/11/92	78	17.50	25.50	25.25	23.13
04/11/92	79	19.00	25.38	22.88	22.38
05/11/92	80	18.00	25.00	21.00	21.50
06/11/92	81				
19/11/92	94	29.00	26.00	27.50	26.17
20/11/92	95	29.00	25.95	27.25	26.88
21/11/92	96	21.00	25.38	25.75	24.25
22/11/92	97	15.50	25.00	24.50	23.75
23/11/92	98	20.00		26.00	26.38
24/11/92	99	22.50	25.25	25.13	26.25
25/11/92	100	23.00	25.38	26.38	26.75
26/11/92	101	25.00	25.63	26.38	27.25
27/11/92	102	28.50	25.75	26.50	27.38
28/11/92	103	18.00	25.88	25.13	24.75
29/11/92	104	21.00	25.88	22.50	24.13
30/11/92	105		26.00	24.25	25.63
01/12/92	106	15.50	26.00	26.00	23.63
02/12/92	107	22.00	25.88	26.50	25.00
03/12/92	108	26.00	25.75	25.88	25.38
04/12/92	109	27.50	25.38	24.17	25.00

Nota: Las temperaturas ambiente medias diarias son datos del
Servicio Meteorológico Nacional.

TABLA Nro. 189 - SISTEMA "CATAMARCA"
TEMPERATURAS MEDIAS SEMANALES

T° AMBIENTE MEDIA °C	T° LAGUNA MEDIA °C
17.00	18.44
18.58	19.74
13.67	17.84
17.50	18.73
20.30	21.70
17.31	20.95
22.80	21.68
21.07	22.04
23.84	23.48
23.57	24.38
24.58	25.21
18.17	23.04
22.90	26.20
23.00	25.18
22.75	25.64

TABLA Nro. 190 - SISTEMA CATAMARCA
pH

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
07/09/92	21	8.00	7.92	7.98	7.85
	21	12.00	7.97	8.06	8.08
	21	15.00	7.76	8.06	8.20
	21	18.00	7.81	8.09	8.17
08/09/92	22	8.00	7.85	8.12	8.21
	22	12.00	7.93	7.85	8.06
	22	15.00	7.80	8.05	8.15
	22	18.00	7.68	8.03	8.17
09/09/92	23	8.00	7.86	7.85	7.81
	23	12.00	7.78	7.95	8.11
	23	15.00	7.88	8.03	8.22
	23	18.00	7.76	8.15	8.16
10/09/92	24	8.00	7.85	7.86	8.02
	24	12.00	7.81	8.02	8.00
	24	15.00	7.86	8.13	8.03
	24	18.00	7.82	8.09	8.04
11/09/92	25	8.00	7.84	7.91	8.08
	25	12.00	7.82	8.03	8.09
	25	15.00	7.81	7.99	8.00
	25	18.00	7.87	8.07	8.03
12/09/92	26	8.00	7.74	7.91	7.93
	26	12.00	7.91	7.98	8.05
	26	15.00	7.82	8.04	8.03
	26	18.00	7.86	8.02	8.04
13/09/92	27	8.00	7.92	7.96	7.98
	27	12.00	7.85	8.00	8.05
	27	15.00	7.94	8.05	8.03
	27	18.00	7.90	8.03	8.07
14/09/92	28	8.00	7.76	8.00	8.00
	28	12.00	7.91	8.17	8.09
	28	15.00	7.68	8.34	8.89
	28	18.00	7.81	8.25	8.10
15/09/92	29	8.00	7.96	7.95	8.14
	29	12.00	7.93	8.07	8.06
	29	15.00	7.59	8.33	8.37
	29	18.00	7.87	8.20	8.29
16/09/92	30	8.00	7.86	7.89	8.01
	30	12.00	7.79	8.03	8.10
	30	15.00	7.59	8.34	8.26
	30	18.00	7.76	8.04	8.16
17/09/92	31	8.00	7.82	8.03	8.03
	31	12.00	7.59	8.10	8.12
	31	15.00	7.76	8.31	8.37
	31	18.00	7.68	8.02	8.09

TABLA Nro. 190 - SISTEMA CATAMARCA
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
18/09/92	32	8.00	7.85	8.06	8.21
	32	12.00	7.82	8.18	8.53
	32	15.00	7.64	8.36	8.40
	32	18.00	7.52	8.41	8.46
19/09/92	33	8.00	7.82	8.19	8.55
	33	12.00	7.82	8.36	8.45
	33	15.00	7.76	8.19	8.50
	33	18.00	7.81	8.05	8.09
20/09/92	34	8.00	7.68	8.03	8.38
	34	12.00	7.90	8.12	8.14
	34	15.00	7.87	8.39	8.22
	34	18.00	7.65	8.26	8.46
21/09/92	35	8.00	7.82	8.02	8.26
	35	12.00	7.92	8.25	8.52
	35	15.00	7.72	8.39	9.20
	35	18.00	7.59	8.16	8.11
22/09/92	36	8.00	7.96	8.12	8.08
	36	12.00	7.78	7.83	8.11
	36	15.00	7.57	8.00	8.14
	36	18.00	7.64	8.03	8.12
23/09/92	37	8.00	8.01	7.94	8.05
	37	12.00	7.86	8.11	8.45
	37	15.00	7.76	8.06	8.15
	37	18.00	7.64	8.07	8.13
24/09/92	38	8.00	7.82	7.89	7.87
	38	12.00	7.90	8.11	8.16
	38	15.00	7.65	8.21	8.18
	38	18.00	7.63	8.26	8.20
25/09/92	39	8.00	7.94	8.01	8.03
	39	12.00	7.86	7.68	7.88
	39	15.00	7.68	8.05	7.92
	39	18.00	7.54	7.97	7.83
26/09/92	40	8.00	7.72	7.86	7.96
	40	12.00	7.98	7.95	7.66
	40	15.00	7.72	8.03	7.92
	40	18.00	7.69	8.06	7.86
27/09/92	41	8.00	7.69	7.82	7.94
	41	12.00	7.78	7.97	7.98
	41	15.00	7.74	8.01	8.02
	41	18.00	7.87	8.04	8.06
28/09/92	42	8.00	7.92	7.98	7.61
	42	12.00	7.79	8.31	8.00
	42	15.00	7.62	8.34	8.03
	42	18.00	7.94	8.13	8.06

TABLA Nro. 190 - SISTEMA CATAMARCA
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
29/09/92	43	8.00	8.03	7.84	7.60
	43	12.00	7.84	7.99	7.69
	43	15.00	7.98	8.19	7.96
	43	18.00	7.70	8.09	7.83
30/09/92	44	8.00	7.96	7.96	7.74
	44	12.00	7.84	7.97	7.96
	44	15.00	7.74	8.24	7.72
	44	18.00	7.94	8.15	7.69
01/10/92	45	8.00	7.76	7.94	7.60
	45	12.00	7.78	7.89	7.89
	45	15.00	7.73	7.92	7.84
	45	18.00	7.75	7.94	7.86
02/10/92	46	8.30	7.74	7.96	7.62
	46	12.30	7.81	7.88	7.87
	46	14.30	7.66	7.94	7.81
	46	18.30	7.60	7.85	7.89
03/10/92	47	8.30	7.69	7.82	7.68
	47	12.30	7.72	7.68	7.64
	47	14.30	7.67	7.93	7.73
	47	18.30	7.63	7.74	7.86
04/10/92	48	8.30	7.82	7.67	7.63
	48	12.30	7.71	7.96	7.89
	48	14.30	7.62	7.87	7.94
	48	18.30	7.68	7.98	7.87
05/10/92	49	8.30	8.05	7.90	7.70
	49	12.30	7.81	7.95	7.62
	49	14.30	7.94	7.98	7.72
	49	18.30	7.98	7.92	7.68
06/10/92	50	8.30	7.96	7.98	7.73
	50	12.30	7.89	7.99	7.64
	50	14.30	7.81	8.06	7.74
	50	18.30	7.72	8.08	7.77
07/10/92	51	8.30	7.86	7.85	7.79
	51	12.30	7.94	7.98	7.95
	51	14.30	7.98	7.96	7.86
	51	18.30	7.99	7.94	7.89
08/10/92	52	8.30	8.01	7.91	7.80
	52	12.30	7.86	8.00	7.90
	52	14.30	8.02	8.04	7.79
	52	18.30	7.97	7.98	7.92
09/10/92	53	8.30	7.98	7.82	7.83
	53	12.30	7.83	7.89	7.93
	53	14.30	7.96	7.94	7.87
	53	18.30	7.86	7.96	7.86

TABLA Nro. 190 - SISTEMA CATAMARCA
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
10/10/92	54	8.30	7.94	7.87	7.91
	54	12.30	7.83	7.86	7.83
	54	14.30	7.84	7.82	7.91
	54	18.30	7.92	7.84	7.87
11/10/92	55	8.30	7.86	7.90	7.98
	55	12.30	7.92	7.86	8.07
	55	14.30	7.68	7.84	8.12
	55	18.30	7.79	7.86	8.46
12/10/92	56	8.30	7.97	8.04	8.50
	56	12.30	7.99	8.07	8.81
	56	14.30	8.02	8.12	8.68
	56	18.30	7.98	8.10	8.79
13/10/92	57	8.30	8.17	7.91	8.12
	57	12.30	8.03	8.01	8.68
	57	14.30	8.19	8.06	8.42
	57	18.30	8.07	8.12	8.48
14/10/92	58	8.30	8.02	7.83	8.35
	58	12.30	8.00	8.02	8.43
	58	14.30	7.47	8.43	8.23
	58	18.30	7.68	8.37	8.38
15/10/92	59	8.30	7.79	8.12	8.49
	59	12.30	7.85	8.04	8.64
	59	14.30	7.67	8.62	8.33
	59	18.30	7.81	8.61	8.03
16/10/92	60	8.30	7.93	8.07	7.65
	60	12.30	7.68	8.16	7.95
	60	14.30	7.56	8.26	7.90
	60	18.30	7.65	8.21	7.94
17/10/92	61	8.30	7.81	8.20	8.60
	61	12.30	7.79	8.17	8.68
	61	14.30	7.68	8.26	8.01
	61	18.30	7.82	8.22	7.94
18/10/92	62	8.30	7.86	7.96	7.56
	62	12.30	7.89	8.05	8.13
	62	14.30	7.59	8.19	8.15
	62	18.30	7.64	8.15	8.05
19/10/92	63	8.30	7.82	8.07	7.90
	63	12.30	7.85	8.26	8.62
	63	14.30	7.81	8.21	8.68
	63	18.30	7.85	8.32	8.46
20/10/92	64	8.30	7.86	7.97	8.07
	64	12.30	7.93	7.99	7.82
	64	14.30	7.98	8.02	7.94
	64	18.30	7.94	8.06	7.86

TABLA Nro. 190 - SISTEMA CATAMARCA
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
21/10/92	65	8.30	7.77	7.89	8.13
	65	12.30	7.86	7.98	8.72
	65	14.30	7.98	7.96	8.16
	65	18.30	7.79	7.86	8.20
22/10/92	66	8.30	7.81	7.87	7.96
	66	12.30	7.84	8.44	8.91
	66	14.30	7.86	8.43	8.68
	66	18.30	7.90	8.13	8.97
23/10/92	67	8.30	8.01	8.25	8.30
	67	12.30	7.56	8.60	8.24
	67	14.30	7.68	8.64	8.63
	67	18.30	8.02	8.24	8.68
24/10/92	68	8.30	7.96	8.26	8.82
	68	12.30	7.64	8.24	8.64
	68	14.30	7.86	8.62	8.62
	68	18.30	7.96	8.68	8.46
25/10/92	69	8.30	7.82	8.43	8.68
	69	12.30	7.99	8.14	8.24
	69	14.30	7.98	8.52	8.64
	69	18.30	7.64	8.46	8.66
26/10/92	70	8.30	7.83	8.28	7.94
	70	12.30	7.67	8.64	7.96
	70	14.30	7.66	8.71	7.98
	70	18.30	7.68	8.72	7.96
27/10/92	71	8.30	7.97	8.16	7.93
	71	12.30	7.69	8.60	8.38
	71	14.30	7.65	8.64	8.42
	71	18.30	7.68	8.62	8.40
28/10/92	72	8.30	7.62	8.16	7.96
	72	12.30	7.74	8.18	7.87
	72	14.30	7.76	8.17	7.96
	72	18.30	7.72	8.20	7.89
29/10/92	73	8.30	7.68	8.62	8.26
	73	12.30	7.62	8.24	8.02
	73	14.30	7.72	8.33	8.64
	73	18.30	7.74	8.12	8.27
30/10/92	74	8.30	7.62	8.18	7.68
	74	12.30	7.82	8.26	7.74
	74	14.30	7.62	8.15	8.04
	74	18.30	7.81	8.16	8.09
31/10/92	75	8.30	7.63	8.22	8.62
	75	12.30	7.68	8.26	7.96
	75	14.30	7.86	8.15	8.09
	75	18.30	7.91	8.36	8.10

TABLA Nro. 190 - SISTEMA CATAMARCA
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
01/11/92	76	8.30	7.68	8.22	7.64
	76	12.30	7.72	8.28	7.68
	76	14.30	7.86	8.32	8.01
	76	18.30	7.81	8.64	8.09
02/11/92	77	8.30	7.96	8.47	8.08
	77	12.30	7.98	8.44	8.10
	77	14.30	7.95	8.48	8.12
	77	18.30	7.89	8.56	8.26
03/11/92	78	8.30	7.98	8.46	8.13
	78	12.30	7.96	8.49	8.32
	78	14.30	7.89	8.26	8.42
	78	18.30	7.92	8.32	8.17
04/11/92	79	8.30	7.89	8.62	8.06
	79	12.30	7.96	8.47	8.24
	79	14.30	7.82	8.64	8.28
	79	18.30	7.86	8.68	8.40
05/11/92	80	8.30	7.94	8.15	8.36
	80	12.30	7.92	8.17	8.42
	80	14.30	7.80	8.25	8.40
	80	18.30	7.82	8.30	8.32
19/11/92	94	10.30	7.62	8.33	8.38
	94	14.30	7.43	8.09	8.43
	94	18.30	7.68	8.26	8.50
	94				
20/11/92	95	8.30	7.77	8.21	8.07
	95	12.30	7.69	8.26	8.26
	95	14.30	7.67	8.30	8.32
	95	18.00	7.72	8.29	8.40
21/11/92	96	8.30	7.68	8.26	8.06
	96	12.30	7.74	8.16	8.03
	96	14.30	7.69	8.10	7.99
	96	18.30	7.71	8.17	7.98
22/11/92	97	8.30	7.68	8.26	8.10
	97	12.30	7.64	8.22	8.06
	97	14.30	7.65	8.06	8.38
	97	18.30	7.68	8.13	8.40
23/11/92	98	8.30		8.15	8.06
	98	12.30		8.01	8.02
	98	14.30		7.91	7.89
	98	18.30		7.88	7.88
24/11/92	99	8.30	7.64	7.96	7.96
	99	12.30	7.84	7.94	7.85
	99	14.30	7.86	7.99	7.89
	99	18.00	7.82	8.05	7.91

TABLA Nro. 190 - SISTEMA CATAMARCA
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH EFLUENTE	pH LAGUNA
25/11/92	100	8.30	7.84	8.26	7.99
	100	12.30	7.86	8.24	8.02
	100	14.30	7.80	8.30	8.04
	100	18.30	7.92	8.31	8.12
26/11/92	101	8.30	7.82	8.42	8.16
	101	12.30	7.86	8.41	8.21
	101	14.30	7.84	8.39	8.26
	101	18.30	7.76	8.46	8.24
27/11/92	102	8.30	7.81	8.42	8.27
	102	12.30	7.86	8.38	8.30
	102	14.30	7.74	8.56	8.06
	102	18.30	7.78	8.50	8.10
28/11/92	103	8.30	7.78	8.24	8.21
	103	12.30	7.80	8.40	8.12
	103	14.30	7.79	8.43	8.16
	103	18.30	7.56	8.50	8.20
29/11/92	104	8.30	7.64	8.32	8.23
	104	12.30	7.62	8.40	8.31
	104	14.30	7.70	8.41	8.21
	104	18.30	7.74	8.45	8.18
30/11/92	105	8.30	7.80	8.51	8.06
	105	12.30	7.76	8.46	8.13
	105	14.30	7.77	8.42	8.21
	105	18.30	7.62	8.47	8.19
01/12/92	106	8.30	7.77	8.56	8.15
	106	12.30	7.68	8.58	8.17
	106	14.30	7.70	8.64	8.20
	106	18.30	7.72	8.89	8.18
02/12/92	107	8.30	7.80	8.91	8.14
	107	12.30	7.81	8.90	8.16
	107	14.30	7.70	8.83	8.17
	107	18.30	7.78	8.76	8.20
03/12/92	108	8.30	7.76	8.82	8.15
	108	12.30	7.79	8.97	8.17
	108	14.30	7.78	8.90	8.20
	108	18.30	7.74	8.86	8.22
04/12/92	109	8.30	7.80	8.82	8.21
	109	12.30	7.64	8.84	8.26
	109	14.30	7.76	8.90	8.12
	109	18.30	7.74	8.92	8.14

TABLA Nro. 191 - SISTEMA CATAMARCA
pH

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH EFLUENTE MEDIO	pH LAGUNA MEDIO
07/09/92	21	7.9	8.0	8.1
08/09/92	22	7.8	8.0	8.1
09/09/92	23	7.8	8.0	8.1
10/09/92	24	7.8	8.0	8.0
11/09/92	25	7.8	8.0	8.1
12/09/92	26	7.8	8.0	8.0
13/09/92	27	7.9	8.0	8.0
14/09/92	28	7.8	8.2	8.3
15/09/92	29	7.8	8.1	8.2
16/09/92	30	7.8	8.1	8.1
17/09/92	31	7.7	8.1	8.2
18/09/92	32	7.7	8.3	8.4
19/09/92	33	7.8	8.2	8.4
20/09/92	34	7.8	8.2	8.3
21/09/92	35	7.8	8.2	8.5
22/09/92	36	7.7	8.0	8.1
23/09/92	37	7.8	8.0	8.2
24/09/92	38	7.8	8.1	8.1
25/09/92	39	7.8	7.9	7.9
26/09/92	40	7.8	8.0	7.9
27/09/92	41	7.8	8.0	8.0
28/09/92	42	7.8	8.2	7.9
29/09/92	43	7.9	8.0	7.8
30/09/92	44	7.9	8.1	7.8
01/10/92	45	7.8	7.9	7.8
02/10/92	46	7.7	7.9	7.8
03/10/92	47	7.7	7.8	7.7
04/10/92	48	7.7	7.9	7.8
05/10/92	49	7.9	7.9	7.7
06/10/92	50	7.8	8.0	7.7
07/10/92	51	7.9	7.9	7.9
08/10/92	52	8.0	8.0	7.9
09/10/92	53	7.9	7.9	7.9
10/10/92	54	7.9	7.8	7.9
11/10/92	55	7.8	7.9	8.2
12/10/92	56	8.0	8.1	8.7
13/10/92	57	8.1	8.0	8.4
14/10/92	58	7.8	8.2	8.3
15/10/92	59	7.8	8.3	8.4
16/10/92	60	7.7	8.2	7.9
17/10/92	61	7.8	8.2	8.3

TABLA Nro. 191 - SISTEMA CATAMARCA
pH (cont.)

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH EFLUENTE MEDIO	pH LAGUNA MEDIO
18/10/92	62	7.7	8.1	8.0
19/10/92	63	7.8	8.2	8.4
20/10/92	64	7.9	8.0	7.9
21/10/92	65	7.9	7.9	8.3
22/10/92	66	7.9	8.2	8.6
23/10/92	67	7.8	8.4	8.5
24/10/92	68	7.9	8.5	8.6
25/10/92	69	7.9	8.4	8.6
26/10/92	70	7.7	8.6	8.0
27/10/92	71	7.7	8.5	8.3
28/10/92	72	7.7	8.2	7.9
29/10/92	73	7.7	8.3	8.3
30/10/92	74	7.7	8.2	7.9
31/10/92	75	7.8	8.2	8.2
01/11/92	76	7.8	8.4	7.9
02/11/92	77	7.9	8.5	8.1
03/11/92	78	7.9	8.4	8.3
04/11/92	79	7.9	8.6	8.2
05/11/92	80	7.9	8.2	8.4
06/11/92	81			
19/11/92	94	7.6	8.2	8.4
20/11/92	95	7.7	8.3	8.3
21/11/92	96	7.7	8.2	8.0
22/11/92	97	7.7	8.2	8.2
23/11/92	98		8.0	8.0
24/11/92	99	7.8	8.0	7.9
25/11/92	100	7.9	8.3	8.0
26/11/92	101	7.8	8.4	8.2
27/11/92	102	7.8	8.5	8.2
28/11/92	103	7.7	8.4	8.2
29/11/92	104	7.7	8.4	8.2
30/11/92	105	7.7	8.5	8.1
01/12/92	106	7.7	8.7	8.2
02/12/92	107	7.8	8.9	8.2
03/12/92	108	7.8	8.9	8.2
04/12/92	109	7.7	8.9	8.2

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
18/8/92	1	8.00	1.1	6.5
	1	12.00	2.1	9.1
	1	15.00		
	1	17.00	1.9	7.2
19/8/92	2	8.00	1.8	7.2
	2	12.00	1.6	10.4
	2	15.00	4.5	10.5
	2	17.00	3.6	9.3
20/8/92	3	8.00	2.1	7.1
	3	12.00	2.6	9.1
	3	15.00	2.5	9.4
	3	17.00	2.7	9.1
21/8/92	4	8.00		
	4	12.00		
	4	15.00		
	4	17.00		
22/8/92	5	8.00	3.4	7.2
	5	12.00	8.1	9.2
	5	15.00	6.7	9.1
	5	17.00	7.5	10.3
23/8/92	6	8.00	2.6	6.3
	6	12.00	4.6	8.4
	6	15.00	5.2	8.1
	6	17.00	4.7	7.4
24/8/92	7	8.00	3.7	4.6
	7	12.00	7.7	10.3
	7	15.00	4.2	7.8
	7	17.00	4.9	4.7
25/8/92	8	8.00	5.7	6.2
	8	12.00	6.1	5.1
	8	15.00	5.6	4.9
	8	17.00	3.6	5.2
26/8/92	9	8.00	2.8	1.5
	9	12.00	10.2	3.0
	9	15.00	8.3	3.8
	9	17.00	3.8	3.5
27/8/92	10	8.00	3.9	3.9
	10	12.00	3.5	3.8
	10	15.00	7.2	3.8
	10	17.00	4.7	3.0
28/8/92	11	8.00	2.6	
	11	12.00	3.9	3.9
	11	15.00	3.2	3.5
	11	17.00	2.7	3.2

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
29/8/92	12	8.00	7.2	3.7
	12	12.00	6.4	2.9
	12	15.00	5.4	3.1
	12	17.00	4.8	3.7
30/8/92	13	8.00	5.6	3.0
	13	12.00	5.2	3.8
	13	15.00	4.3	3.9
	13	17.00	4.2	3.6
31/8/92	14	8.00	4.4	3.7
	14	12.00	1.4	4.5
	14	15.00	3.7	3.9
	14	18.00	2.3	3.0
1/9/92	15	8.00	2.1	3.8
	15	12.00	4.3	3.7
	15	15.00	3.7	4.1
	15	18.00	2.3	3.6
2/9/92	16	8.00	1.5	3.1
	16	12.00	1.9	4.7
	16	15.00	2.0	3.7
	16	18.00	2.1	3.5
3/9/92	17	8.00	1.7	2.8
	17	12.00	2.0	3.0
	17	15.00	1.9	1.9
	17	18.00	2.2	2.7
4/9/92	18	8.00	1.9	2.9
	18	12.00	2.1	2.4
	18	15.00	1.7	3.1
	18	18.00	1.8	2.9
5/9/92	19	8.00	3.2	3.2
	19	12.00	4.9	3.9
	19	15.00	3.7	3.1
	19	18.00	4.1	3.7
6/9/92	20	8.00	2.9	4.0
	20	12.00	2.8	4.2
	20	15.00	4.2	4.5
	20	18.00	4.6	4.7
07/09/92	21	8.00	1.1	2.2
	21	12.00	2.8	4.1
	21	15.00	3.8	3
	21	18.00	3.2	2.7
08/09/92	22	8.00	3.7	2.6
	22	12.00	2.8	1.5
	22	15.00	4.2	3.4
	22	18.00	5.2	4.7

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
09/09/92	23	8.00	1.4	1.7
	23	12.00	4.1	2.6
	23	15.00	2.3	3
	23	18.00	2.1	2.8
10/09/92	24	8.00	3.4	2.5
	24	12.00	3.3	3.6
	24	15.00	3.2	2.9
	24	18.00	2.7	2.7
11/09/92	25	8.00	1.9	2.2
	25	12.00	3.7	3.4
	25	15.00	3.1	2.8
	25	18.00	2.9	3.1
12/09/92	26	8.00	2.2	2.3
	26	12.00	2.8	3.1
	26	15.00	3	2.8
	26	18.00	3.2	2.5
13/09/92	27	8.00	2.2	2.6
	27	12.00	2.9	2.7
	27	15.00	3.5	3
	27	18.00	3.2	2.6
14/09/92	28	8.00	2.7	2.6
	28	12.00	3.6	2.8
	28	15.00	3.9	5.2
	28	18.00	3.8	3.8
15/09/92	29	8.00	2.8	1.9
	29	12.00	3.2	3.4
	29	15.00	6.1	6.3
	29	18.00	4.6	5.4
16/09/92	30	8.00	2.3	2.4
	30	12.00	3.6	3.6
	30	15.00	6.9	6.3
	30	18.00	5.8	5.7
17/09/92	31	8.00	2.4	3.1
	31	12.00	4.1	3.5
	31	15.00	3.8	6.1
	31	18.00	2.4	4.7
18/09/92	32	8.00	2.1	3.3
	32	12.00	9.1	4.5
	32	15.00	8.2	5.7
	32	18.00	7.1	6.3
19/09/92	33	8.00	3.3	3.7
	33	12.00	4.1	4.2
	33	15.00	9.2	6.4
	33	18.00	9.6	6.2

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
20/09/92	34	8.00	3.2	3.4
	34	12.00	6.2	4.7
	34	15.00	12	6.9
	34	18.00	7.7	6.2
21/09/92	35	8.00	3.4	4.2
	35	12.00	6.4	5.7
	35	15.00	12.6	6.1
	35	18.00	7.7	5.1
22/09/92	36	8.00	2.1	3.3
	36	12.00	2.8	2.7
	36	15.00	4.1	4.1
	36	18.00	3.8	3.9
23/09/92	37	8.00	1.2	2
	37	12.00	6.9	3.7
	37	15.00	7.9	5.6
	37	18.00	7.8	4.5
24/09/92	38	8.00	0.7	2.5
	38	12.00	4.8	4.9
	38	15.00	4.3	5.3
	38	18.00	4.4	6.5
25/09/92	39	8.00	2.5	0.7
	39	12.00	2.6	0.6
	39	15.00	2.4	3.1
	39	18.00	1.1	3.2
26/09/92	40	8.00	0.9	0.9
	40	12.00	0.7	3.1
	40	15.00	2.6	3.6
	40	18.00	4.7	4.2
27/09/92	41	8.00	1.1	2.5
	41	12.00	2.6	3.8
	41	15.00	2.2	7.4
	41	18.00	3.3	6.8
28/09/92	42	8.00	0.8	2.3
	42	12.00	0.6	5.2
	42	15.00	2.8	6.2
	42	18.00	3.7	6.9
29/09/92	43	8.00	0.8	2.8
	43	12.00	0.8	3.4
	43	15.00	2.2	6.4
	43	18.00	1.1	4.6
30/09/92	44	8.00	0.9	2.2
	44	12.00	1.3	2.5
	44	15.00	2.5	3.6
	44	18.00	2.1	4.2

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
01/10/92	45	8.00	0.8	2.6
	45	12.00	1.4	2.7
	45	15.00	1.9	3
	45	18.00	2.1	3.2
02/10/92	46	8.30	0.6	2.2
	46	12.30	0.8	2.3
	46	14.30	2.9	3.2
	46	18.30	2.8	2.1
03/10/92	47	8.30	0.9	2.3
	47	12.30	0.8	2.7
	47	14.30	1.1	4.2
	47	18.30	1.3	5.3
04/10/92	48	8.30	2.6	2.6
	48	12.30	3.5	3.7
	48	14.30	3.7	4.2
	48	18.30	3.9	3.8
05/10/92	49	8.30	0.5	2.3
	49	12.30	0.6	2.5
	49	14.30	0.9	2.8
	49	18.30	0.8	3
06/10/92	50	8.30	0.5	2.2
	50	12.30	0.8	2.8
	50	14.30	1	4.8
	50	18.30	1.6	4.2
07/10/92	51	8.30	1.2	2.4
	51	12.30	4.4	4.1
	51	14.30	4.8	4.6
	51	18.30	3.7	3.8
08/10/92	52	8.30	1.4	3.2
	52	12.30	2.8	4.4
	52	14.30	5.1	6.2
	52	18.30	4.8	5.8
09/10/92	53	8.30	3.2	4.3
	53	12.30	2.3	2.7
	53	14.30	3.6	4.6
	53	18.30	3.1	4.2
10/10/92	54	8.30	2.6	1.8
	54	12.30	3.8	2.6
	54	14.30	4.2	6.2
	54	18.30	4.1	5.4
11/10/92	55	8.30	3.8	2.4
	55	12.30	4.8	6.5
	55	14.30	6.6	8.2
	55	18.30	5.2	6.4

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
12/10/92	56	8.30	7.2	4.5
	56	12.30	9.8	7.5
	56	14.30	12.4	11.2
	56	18.30	10.1	10.3
13/10/92	57	8.30	2.4	2.3
	57	12.30	3.6	4.2
	57	14.30	4.8	6.1
	57	18.30	4.2	5.6
14/10/92	58	8.30	6.4	2.5
	58	12.30	6.8	6.3
	58	14.30	7.1	9.4
	58	18.30	6.2	8.6
15/10/92	59	8.30	3.5	2.7
	59	12.30	3.8	6.1
	59	14.30	6.2	6.8
	59	18.30	5.2	6.4
16/10/92	60	8.30	0.4	1.6
	60	12.30	1.3	3.2
	60	14.30	1.6	3.5
	60	18.30	2.3	3.2
17/10/92	61	8.30	0.8	1.8
	61	12.30	2.1	3.6
	61	14.30	2.6	4.2
	61	18.30	3.1	3.8
18/10/92	62	8.30	0.9	2.1
	62	12.30	3.5	2.9
	62	14.30	3.1	3.9
	62	18.30	3.5	3.6
19/10/92	63	8.30	0.8	2.2
	63	12.30	6	8
	63	14.30	6.2	9.2
	63	18.30	7.3	6.4
20/10/92	64	8.30	1.6	3.2
	64	12.30	2	2.4
	64	14.30	2.3	2.6
	64	18.30	3.1	2.9
21/10/92	65	8.30	3.6	2.2
	65	12.30	4.2	3.8
	65	14.30	5.3	6.2
	65	18.30	6.1	5.8
22/10/92	66	8.30	3.1	2.8
	66	12.30	8.4	8.1
	66	14.30	9.3	10.1
	66	18.30	8.5	9

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
23/10/92	67	8.30	4.8	4.5
	67	12.30	5.2	9.5
	67	14.30	9.2	10
	67	18.30	7.8	9
24/10/92	68	8.30	4.3	4.2
	68	12.30	4.9	5.2
	68	14.30	10	10
	68	18.30	6.4	9
25/10/92	69	8.30	3.1	4.6
	69	12.30	4.2	4.9
	69	14.30	4.1	10.5
	69	18.30	3.6	8.6
26/10/92	70	8.30	0.9	4.5
	70	12.30	0.5	8.2
	70	14.30	1.4	8.3
	70	18.30	1.2	8.1
27/10/92	71	8.30	0.9	2.1
	71	12.30	6.7	7.7
	71	14.30	6.9	9.8
	71	18.30	6.2	9.9
28/10/92	72	8.30	0.6	2.3
	72	12.30	1.8	3.3
	72	14.30	2.2	5.6
	72	18.30	1.9	4.8
29/10/92	73	8.30	1.2	2.5
	73	12.30	1.6	2.8
	73	14.30	3.6	3.9
	73	18.30	3.8	6.2
30/10/92	74	8.30	1.6	3.2
	74	12.30	2.8	3.8
	74	14.30	3.2	5.2
	74	18.30	4.6	6.2
31/10/92	75	8.30	1.6	3.1
	75	12.30	3.1	3.9
	75	14.30	5.2	5.2
	75	18.30	6.1	5.8
01/11/92	76	8.30	2.9	4.2
	76	12.30	5.5	8.9
	76	14.30	6.9	10
	76	18.30	5.6	8.3
02/11/92	77	8.30	4.2	4.5
	77	12.30	6.3	8.4
	77	14.30	7.8	10
	77	18.30	7.6	6.4

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
03/11/92	78	8.30	3.8	4.2
	78	12.30	4.9	6.2
	78	14.30	6.9	7.5
	78	18.30	6.2	8.4
04/11/92	79	8.30	2.6	3.6
	79	12.30	3.8	4.8
	79	14.30	5.6	6.4
	79	18.30	4.9	6.9
05/11/92	80	8.30	2.6	3.2
	80	12.30	3.4	4.8
	80	14.30	4	6
	80	18.30	3.8	6.3
19/11/92	94	10.30	8.2	6.2
	94	14.30	9.2	7.9
	94	18.30	8.6	8.9
	94			
20/11/92	95	8.30	3.3	3.4
	95	12.30	4.9	6.9
	95	14.30	6.2	8.1
	95	18.00	6.9	7.9
21/11/92	96	8.30	0.9	3.1
	96	12.30	1.8	3.2
	96	14.30	2.1	4.2
	96	18.30	2.2	4.4
22/11/92	97	8.30	0.9	2.8
	97	12.30	1.4	3
	97	14.30	1.4	3.1
	97	18.30	1.8	4.6
23/11/92	98	8.30	1.6	3.2
	98	12.30	1.7	4.2
	98	14.30	1.8	6.1
	98	18.30	1.8	6
24/11/92	99	8.30	1.8	1.1
	99	12.30	1.8	1.2
	99	14.30	2.1	2.6
	99	18.00	2.3	2.1
25/11/92	100	8.30	2.4	1.4
	100	12.30	3.1	1.8
	100	14.30	4.2	2.1
	100	18.30	4.5	2.4
26/11/92	101	8.30	2.8	2.1
	101	12.30	3.6	2.4
	101	14.30	3.6	2.6
	101	18.30	4.2	2.8

TABLA Nro. 192 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. LAGUNA	O.D. EFLUENTE
27/11/92	102	8.30	2.1	2.6
	102	12.30	2.6	2.8
	102	14.30	3.8	2.9
	102	18.30	3.2	3
28/11/92	103	8.30	2.1	2.6
	103	12.30	2.6	3.2
	103	14.30	3.1	4.6
	103	18.30	3.2	4.2
29/11/92	104	8.30	2.6	3
	104	12.30	2.9	3.4
	104	14.30	3.1	4
	104	18.30	3.3	4.3
30/11/92	105	8.30	3	3.2
	105	12.30	3.2	3.6
	105	14.30	4.1	4.2
	105	18.30	4.2	4.6
01/12/92	106	8.30	4.1	3.6
	106	12.30	6.4	4.2
	106	14.30	10.6	6.2
	106	18.30	8.1	5.1
02/12/92	107	8.30	3.8	7
	107	12.30	5.4	10
	107	14.30	6.2	10.6
	107	18.30	6.4	9
03/12/92	108	8.30	4.1	6.9
	108	12.30	5.2	10.3
	108	14.30	6.6	10.5
	108	18.30	9.1	9
04/12/92	109	8.30	5.1	4.6
	109	12.30	6.2	5.2
	109	14.30	8.2	6.3
	109	18.30	8.7	6.9

TABLA Nro. 193 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO MEDIO DIARIO

FECHA	DIA OPERATIVO	O.D. LAGUNA MEDIO
18/8/92	1	1.7
19/8/92	2	2.9
20/8/92	3	2.5
22/8/92	5	6.4
23/8/92	6	4.3
24/8/92	7	5.1
25/8/92	8	5.3
26/8/92	9	6.3
27/8/92	10	4.8
28/8/92	11	3.1
29/8/92	12	6.0
30/8/92	13	4.8
31/8/92	14	3.0
1/9/92	15	3.1
2/9/92	16	1.9
3/9/92	17	2.0
4/9/92	18	1.9
5/9/92	19	4.0
6/9/92	20	3.6
07/09/92	21	2.7
08/09/92	22	4.0
09/09/92	23	2.5
10/09/92	24	3.2
11/09/92	25	2.9
12/09/92	26	2.8
13/09/92	27	3.0
14/09/92	28	3.5
15/09/92	29	4.2
16/09/92	30	4.7
17/09/92	31	3.2
18/09/92	32	6.6
19/09/92	33	6.6
20/09/92	34	7.3
21/09/92	35	7.5
22/09/92	36	3.2
23/09/92	37	6.0
24/09/92	38	3.6
25/09/92	39	2.2
26/09/92	40	2.2
27/09/92	41	2.3
28/09/92	42	2.0
29/09/92	43	1.2
30/09/92	44	1.7
01/10/92	45	1.6
02/10/92	46	1.8
03/10/92	47	1.0
04/10/92	48	3.4
05/10/92	49	0.7

TABLA Nro. 193 - SISTEMA "CATAMARCA"
OXIGENO DISUELTO MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	O.D. LAGUNA MEDIO
06/10/92	50	1.0
07/10/92	51	3.5
08/10/92	52	3.5
09/10/92	53	3.1
10/10/92	54	3.7
11/10/92	55	5.1
12/10/92	56	9.9
13/10/92	57	3.8
14/10/92	58	6.6
15/10/92	59	4.7
16/10/92	60	1.4
17/10/92	61	2.2
18/10/92	62	2.8
19/10/92	63	5.1
20/10/92	64	2.3
21/10/92	65	4.8
22/10/92	66	7.3
23/10/92	67	6.8
24/10/92	68	6.4
25/10/92	69	3.8
26/10/92	70	1.0
27/10/92	71	5.2
28/10/92	72	1.6
29/10/92	73	2.6
30/10/92	74	3.1
31/10/92	75	4.0
01/11/92	76	5.2
02/11/92	77	6.5
03/11/92	78	5.5
04/11/92	79	4.2
05/11/92	80	3.5
06/11/92	81	
19/11/92	94	8.7
20/11/92	95	5.3
21/11/92	96	1.8
22/11/92	97	1.4
23/11/92	98	1.7
24/11/92	99	2.0
25/11/92	100	3.6
26/11/92	101	3.6
27/11/92	102	2.9
28/11/92	103	2.8
29/11/92	104	3.0
30/11/92	105	3.6
01/12/92	106	7.3
02/12/92	107	5.5
03/12/92	108	6.3
04/12/92	109	7.1

SISTEMA CATAMARCA

TABLA N° 194 - DBO5 TOTAL

FECHA	CRUDO	EFLUENTE
24/8/92	220	140
31/8/92	35	30
3/9/92	44	38
7/9/92	45	16
10/9/92	38	23
14/9/92	54	29
16/9/92	56	29
21/9/92	70	38
24/9/92	60	
28/9/92	43	47
1/10/92	118	66
5/10/92	82	76
9/10/92	72	31
13/10/92	62	54
18/10/92	132	31
22/10/92	146	58
26/10/92	136	53
30/10/92	112	30
22/11/92	85	58

TABLA N° 195 - DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
24/8/92	138	89
31/8/92	30	22
3/9/92	32	18
7/9/92	22	12
14/9/92	36	22
16/9/92	26	12
21/9/92	45	31
24/9/92	52	48
28/9/92	42	39
1/10/92	62	43
5/10/92	45	38
9/10/92	43	29
13/10/92	54	31
18/10/92	43	28
22/10/92	106	25
26/10/92	78	44
30/10/92	85	23
22/11/92	58	29

SISTEMA CATAMARCA

TABLA N° 196 - DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
24/8/92	303	212
31/8/92	44	41
7/9/92	56	36
10/9/92	56	34
14/9/92	74	47
16/9/92	83	29
24/9/92	122	122
28/9/92	45	68
1/10/92	135	103
5/10/92	130	103
9/10/92	96	45
13/10/92	66	
22/10/92	177	94
26/10/92	138	63
30/10/92	137	73
22/11/92	120	85

TABLA N° 197 - SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
24/8/92	52	19
3/9/92	22	16
7/9/92	33	29
10/9/92	33	14
14/9/92	36	23
16/9/92	22	26
21/9/92	36	18
24/9/92	12	7
28/9/92	108	65
1/10/92	28	16
5/10/92	33	20
9/10/92	66	55
13/10/92	76	38
18/10/92	164	32
22/10/92	303	112
26/10/92	88	56
30/10/92	160	32
22/11/92	131	95

SISTEMA CATAMARCA

TABLA N° 198 - OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
16/8/92	40.1	24.9
19/8/92	34.1	21.8
20/8/92	35.5	21.1
21/8/92	34.9	24.9
22/8/92	35.0	23.8
23/8/92	35.9	20.3
24/8/92	34.1	19.9
25/8/92	35.2	18.7
26/8/92	33.6	13.7
27/8/92	33.0	12.1
28/8/92	40.6	13.0
29/8/92	38.6	13.2
30/8/92	35.6	15.2
31/8/92	36.1	14.5
1/9/92	35.9	14.0
2/9/92	36.2	15.0
3/9/92	35.4	13.2
4/9/92	37.0	14.6
5/9/92	32.1	10.0
6/9/92	26.8	12.2
7/9/92	31.2	13.2
8/9/92	32.8	13.4
9/9/92	32.6	14.2
10/9/92	27.4	12.4
11/9/92	31.4	13.4
12/9/92	28.8	12.8
13/9/92	31.4	13.6
14/9/92	35.4	12.6
15/9/92	31.8	13.8
16/9/92	37.6	13.0
17/9/92	35.4	13.4
18/9/92	29.6	14.6
19/9/92	31.8	13.6
20/9/92	32.6	13.4
21/9/92	32.8	13.3
22/9/92	32.8	13.2
23/9/92	29.6	11.8
24/9/92	30.8	12.4
25/9/92	31.6	13.0
26/9/92	32.8	14.0
27/9/92	31.6	13.6
28/9/92	33.2	14.6
29/9/92	38.6	18.4
30/9/92	33.2	18.0

SISTEMA CATAMARCA

TABLA N° 199 - SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
18/8/92	1.2	0.1	3.4	0.2
19/8/92	1.3	0.1	4.0	0.2
20/8/92	1.2	0.2	3.7	0.5
21/8/92	1.4	0.2	4.3	0.3
22/8/92	1.5	0.1	3.4	0.3
23/8/92	1.5	ND	4.5	0.1
24/8/92	1.0	0.1	3.0	0.1
25/8/92	1.0	0.1	3.0	0.1
26/8/92	1.5	ND	3.0	0.1
27/8/92	3.0	0.1	3.0	0.1
28/8/92	2.5	ND	3.0	0.2
29/8/92	2.5	ND	3.0	0.1
30/8/92	2.5	0.1	3.0	0.2
31/8/92	3.0	0.1	3.0	0.2
1/9/92	3.0	0.1	3.0	0.2
2/9/92	2.5	0.1	4.0	0.3
3/9/92	4.0	0.1	6.0	0.2
4/9/92	2.5	0.1	3.0	0.2
5/9/92	2.5	0.1	3.0	0.2
6/9/92	2.5	0.1	3.0	0.2
7/9/92	2.3	0.1	3.5	0.1
8/9/92	2.5	0.1	3.0	0.1
9/9/92	3.0	0.1	3.0	0.1
10/9/92	2.5	0.1	3.0	0.1
11/9/92	2.5	0.1	3.0	0.1
12/9/92	2.5	0.1	3.0	0.1
13/9/92	3.0	0.1	3.0	0.1
14/9/92	3.5	0.1	3.5	0.1
15/9/92	2.5	0.1	3.0	0.1
16/9/92	2.5	0.1	3.0	0.1
17/9/92	2.5	0.1	3.0	0.1

NOTA: ND = no detectado (límite detección: 0,1 ml/l)

SISTEMA CATAMARCA

TABLA Nº 199 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
18/9/92	3.0	ND	3.0	ND
19/9/92	2.5	0.1	3.0	ND
20/9/92	3.0	0.1	3.5	0.1
21/9/92	3.0	0.1	3.0	0.1
22/9/92	2.5	0.1	3.0	0.1
23/9/92	3.0	0.1	3.0	0.1
24/9/92	3.0	0.1	3.0	0.1
25/9/92	3.0	0.1	3.5	0.1
26/9/92	3.0	0.2	3.5	0.2
27/9/92	3.0	0.1	3.5	0.1
28/9/92	3.0	0.1	3.5	0.2
29/9/92	3.0	0.1	3.0	0.1
30/9/92	3.0	0.1	3.5	0.1
1/10/92	3.0	ND	4.0	0.1
2/10/92	2.8	ND	3.3	0.1
3/10/92	3.3	ND	3.5	0.1
4/10/92	3.5	ND	4.3	ND
5/10/92	2.3	ND	2.8	0.2
6/10/92	3.0	ND	3.8	ND
7/10/92	2.8	ND	3.3	ND
8/10/92	2.5	ND	3.3	ND
9/10/92	3.0	ND	3.5	0.1
10/10/92	2.8	ND	3.3	0.1
11/10/92	2.8	ND	3.5	0.1
12/10/92	3.3	ND	3.5	0.1
13/10/92	2.8	ND	2.8	0.1

NOTA: ND = no detectado (límite detección: 0,1 ml/l)

SISTEMA CATAMARCA

TABLA N° 193 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
14/10/92	2.0	ND	3.0	0.2
15/10/92	3.0	ND	3.5	0.1
16/10/92	3.0	ND	3.5	0.1
17/10/92	3.0	ND	3.5	0.1
18/10/92	3.0	ND	3.0	0.1
19/10/92	3.0	0.1	3.5	0.2
20/10/92	2.5	ND	3.0	0.1
21/10/92	3.0	ND	3.5	0.1
22/10/92	2.5	0.3	3.0	0.4
23/10/92	2.5	0.1	3.0	0.3
24/10/92	3.0	0.1	4.0	0.2
25/10/92	3.0	0.1	3.5	0.2
26/10/92	3.0	0.3	4.0	0.4
27/10/92	3.0	0.2	3.5	0.3
28/10/92	3.0	0.1	3.0	0.2
29/10/92	3.0	0.1	3.0	0.1
30/10/92	2.5	0.1	3.0	0.2
31/10/92	3.0	0.1	3.5	0.2

SISTEMA CATAMARCA

TABLA N° 199 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)		2 HORAS (ml/l)	
	CRUDO	EFLUENTE	CRUDO	EFLUENTE
1/11/92	3.0	ND	3.0	0.1
2/11/92	3.0	0.1	3.5	0.2
3/11/92	3.0	0.1	3.5	0.2
4/11/92	3.0	0.1	3.0	0.2
5/11/92	3.0	0.1	3.0	0.2
19/11/92	3.5	ND	4.0	0.1
20/11/92	3.0	ND	3.5	0.1
21/11/92	3.0	ND	3.5	0.1
22/11/92	2.5	ND	3.0	0.1
24/11/92	3.0	ND	3.5	0.1
25/11/92	2.5	0.1	3.0	0.1
26/11/92	2.5	ND	3.5	0.1
27/11/92	3.0	0.1	3.5	0.1
28/11/92	3.0	0.1	3.5	0.1
29/11/92	3.0	ND	3.5	0.1
30/11/92	2.5	ND	3.0	0.1
1/12/92	2.5	ND	3.5	0.1
2/12/92	3.0	ND	3.5	0.1
3/12/92	2.5	ND	3.5	0.1
4/12/92	3.0	ND	3.5	0.1

SISTEMA CATAMARCA

TABLA N° 200 - NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
24/8/92	19.60	15.68
26/8/92	19.04	10.64
31/8/92	17.36	10.64
3/9/92	36.00	26.00
7/9/92	20.16	16.24
14/9/92	17.92	8.40
16/9/92	20.16	15.68
21/9/92	3.00	2.20
24/9/92	3.00	3.00
28/9/92	4.80	1.50
1/10/92	5.20	3.00
5/10/92	5.60	3.40
9/10/92	5.60	2.20
13/10/92	6.00	3.30
26/10/92	6.40	3.00
30/10/92	5.40	3.00
22/11/92	6.80	3.60

TABLA N° 201 - NITROGENO AMONIAICAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
24/8/92	5.60	3.36
26/8/92	12.32	5.60
31/8/92	8.96	8.96
3/9/92	13.44	14.64
7/9/92	12.32	10.08
10/9/92	8.96	1.12
14/9/92	8.96	2.24
16/9/92	8.96	5.60
21/9/92	0.80	0.60
24/9/92	0.80	0.80
28/9/92	1.30	0.90
1/10/92	1.40	0.80
5/10/92	1.50	0.90
9/10/92	1.50	0.60
13/10/92	1.60	0.90
18/10/92	1.50	1.40
26/10/92	1.70	0.80
30/10/92	1.40	0.70
22/11/92	2.50	1.20

SISTEMA CATAMARCA

TABLA N° 202 - NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
26/8/92	0.03	ND
31/8/92	1.00	ND
3/9/92	4.00	2.00
7/9/92	6.00	0.90
10/9/92	2.00	ND
14/9/92	0.20	ND
16/9/92	2.00	0.50
21/9/92	0.05	0.03
1/10/92	0.01	0.02
26/10/92	ND	ND
30/10/92	ND	ND

NOTA: ND = no detectado (límite detección: 0.01 mg/l).

TABLA N° 203 - FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
24/8/92	12.00	1.50
7/9/92	22.81	18.36
10/9/92	22.81	14.56
14/9/92	16.81	6.50
16/9/92	12.50	8.50
21/9/92	28.00	6.00
24/9/92	32.00	15.00
28/9/92	44.00	12.00
1/10/92	32.00	12.00
5/10/92	32.00	10.50
9/10/92	44.00	15.00
13/10/92	36.00	15.00
26/10/92	40.00	15.00
30/10/92	44.00	15.00
22/11/92	46.00	28.00

SISTEMA CATAMARCA

TABLA N° 204 - FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
26/8/92	5.00	2.00
3/9/92	8.00	6.00
7/9/92	6.00	3.00
10/9/92	14.00	8.00
14/9/92	10.50	3.00
16/9/92	8.50	6.00
21/9/92	7.00	4.00
28/9/92	11.00	8.00
1/10/92	8.00	8.00
5/10/92	8.00	7.00
9/10/92	11.00	10.00
22/10/92	4.00	2.00
30/10/92	13.00	9.00
22/11/92	20.00	12.00

TABLA N° 205 - GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
24/8/92	12	4

SISTEMA CATAMARCA

TABLA N° 206 - MICROORGANISMOS INDICADORES

FECHA	PARAMETRO (NMP/100 ml)				STREPTOCOCCUS	
	COLITOTALES				FAECALIS	
	ENTRADA	SALIDA	ENTRADA	SALIDA	ENTRADA	SALIDA
24/8/92	5.4E+07	2.9E+06	1.0E+07	1.1E+06		
26/8/92	4.4E+07	3.6E+06	1.1E+07	1.2E+06	4.5E+04	1.0E+04
31/8/92	2.2E+08	7.1E+07	1.5E+07	4.8E+06	1.2E+06	1.0E+04
3/9/92	3.1E+08	2.0E+08	1.7E+07	9.3E+06	3.0E+05	4.2E+05
7/9/92	7.3E+07	3.3E+07	1.1E+07	4.8E+06		
10/9/92	1.1E+08	6.3E+07	6.3E+07	1.1E+07		
14/9/92	9.8E+07	5.4E+07	2.7E+07	1.1E+07		
16/9/92	9.4E+07	3.9E+07	1.1E+07	8.3E+06		
21/9/92	1.4E+07	5.1E+06	1.3E+06	4.5E+05		
24/9/92	8.5E+06	3.6E+05	7.6E+05	3.2E+04		
28/9/92	2.1E+06	7.1E+05	1.9E+05	6.4E+04		
1/10/92	1.1E+06	4.9E+05	1.0E+05	4.4E+04		
5/10/92	1.2E+06	5.1E+05	1.1E+06	4.5E+05		
9/10/92	2.1E+06	1.3E+06	1.9E+05	1.1E+05		
13/10/92	3.2E+07	1.7E+06	2.9E+06	1.5E+05		
18/10/92	1.6E+07	7.6E+05	1.4E+06	6.8E+04		
22/10/92	1.7E+07	7.3E+05	1.6E+06	6.6E+04		
26/10/92	1.3E+06	5.0E+05	2.0E+05	8.0E+04		
30/10/92	1.6E+06	6.5E+05	2.0E+05	5.0E+04		
22/11/92	2.0E+06	1.3E+05	3.0E+05	1.0E+05		

SISTEMA CATAMARCA

TABLA N° 207 - REMOCIONES DE DBO5 TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
24/8/92	220	140	36.4
(a)	40	34	15.0
(b)	42	20	52.4
(c)	55	29	47.3
21/9/92	70	38	45.7
28/9/92	43	47	0.0
1/10/92	118	66	44.1
5/10/92	82	76	7.3
9/10/92	72	31	56.9
13/10/92	62	54	12.9
18/10/92	132	31	76.5
22/10/92	146	58	60.3
26/10/92	136	53	61.0
30/10/92	112	30	73.2
22/11/92	85	58	31.8

NOTAS:

- (a) promedio de los días 31/8 y 3/9/92.
- (b) promedio de los días 7 y 10/9/92.
- (c) promedio de los días 14 y 16/9/92.

TABLA N° 208 - REMOCIONES DE DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
24/8/92	138	89	35.5
(a)	31	20	35.5
7/9/92	22	12	45.5
(b)	31	17	45.2
21/9/92	45	31	31.1
24/9/92	52	48	7.7
28/9/92	42	39	7.1
1/10/92	62	43	30.6
5/10/92	45	38	15.6
9/10/92	43	29	32.6
13/10/92	54	31	42.6
18/10/92	43	28	34.9
22/10/92	106	25	76.4
26/10/92	78	44	43.6
30/10/92	85	23	72.9
22/11/92	58	29	50.0

NOTAS:

- (a) promedio de los días 31/8 y 3/9/92.
- (b) promedio de los días 14 y 16/9/92.

SISTEMA CATAMARCA

TABLA N° 209 - REMOCIONES DE DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
24/8/92	303	212	30.0
31/8/92	44	41	6.8
(a)	56	35	37.5
(b)	79	38	51.9
24/9/92	122	122	0.0
28/9/92	45	68	0.0
1/10/92	135	103	23.7
5/10/92	130	103	20.8
9/10/92	96	45	53.1
22/10/92	177	94	46.9
26/10/92	138	63	54.3
30/10/92	137	73	46.7
22/11/92	120	85	29.2

NOTAS: (a) promedio de los días 7 y 10/9/92.
(b) promedio de los días 14 y 16/9/92.

TABLA N° 210 - REMOCIONES DE OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
(a)	36.6	22.6	38.3
(b)	35.0	22.2	36.6
(c)	36.2	14.1	61.0
(d)	35.8	14.4	59.8
(e)	32.0	12.3	61.6
(f)	31.0	13.3	57.1
(g)	31.8	13.1	58.8
(h)	33.6	13.7	59.2
(i)	32.5	13.4	58.8
(j)	31.2	12.8	59.0
(k)	34.2	16.2	52.6

NOTAS: (a) promedio de los días 18 a 20/8/92.
(b) promedio de los días 21 a 24/8/92.
(c) promedio de los días 25 a 29/8/92.
(d) promedio de los días 30/8 a 3/9/92.
(e) promedio de los días 4 a 6/9/92.
(f) promedio de los días 7 a 10/9/92.
(g) promedio de los días 11 a 14/9/92.
(h) promedio de los días 15 a 18/9/92.
(i) promedio de los días 19 a 22/9/92.
(j) promedio de los días 23 a 26/9/92.
(k) promedio de los días 27 a 30/9/92.

SISTEMA CATAMARCA

TABLA N° 211 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
24/8/92	52	19	63.5
3/9/92	22	16	27.3
(a)	33	22	33.3
(b)	29	25	13.8
21/9/92	36	18	50.0
24/9/92	12	7	41.7
28/9/92	108	65	39.8
1/10/92	28	16	42.9
5/10/92	33	20	39.4
9/10/92	66	55	16.7
13/10/92	76	38	50.0
18/10/92	164	32	80.5
22/10/92	303	112	63.0
26/10/92	88	56	36.4
30/10/92	160	32	80.0
22/11/92	131	95	27.5

NOTAS:

(a) promedio de los días 7 y 10/9/92.

(b) promedio de los días 14 y 16/9/92.

SISTEMA CATAMARCA

TABLA N° 212 - REMOCIONES DE SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS			2 HORAS		
	(ml/l)			(ml/l)		
	CRUDO	EFLUENTE	REMOCION (%)	CRUDO	EFLUENTE	REMOCION (%)
(a)	1.2	0.1	91.7	3.7	0.3	91.9
(b)	1.4	0.1	92.9	3.8	0.2	94.7
(c)	2.1	0.1	95.2	3.0	0.1	96.7
(d)	3.0	0.1	96.7	3.8	0.2	94.7
(e)	2.5	0.1	96.0	3.0	0.2	93.3
(f)	2.6	0.1	96.2	3.1	0.1	96.8
(g)	2.9	0.1	96.6	3.1	0.1	96.8
(h)	2.6	0.1	96.2	3.0	0.1	96.7
(i)	2.8	0.1	96.4	3.1	0.1	96.8
(j)	3.0	0.1	96.7	3.3	0.1	97.0
(k)	3.0	0.1	96.7	3.4	0.1	97.1
(l)	3.2	ND	96.9	3.8	0.1	97.4
(m)	2.7	ND	96.3	3.3	0.1	97.0
(n)	2.9	ND	96.6	3.3	0.1	97.0
(o)	2.5	ND	96.0	3.0	0.2	93.3

NOTAS: ND = no detectado (límite detección: 0,1 ml/l)

- (a) promedio de los días 18 a 20/8/92.
- (b) promedio de los días 21 a 24/8/92.
- (c) promedio de los días 25 a 29/8/92.
- (d) promedio de los días 30/8 a 3/9/92.
- (e) promedio de los días 4 a 6/9/92.
- (f) promedio de los días 7 a 10/9/92.
- (g) promedio de los días 11 a 14/9/92.
- (h) promedio de los días 15 a 18/9/92.
- (i) promedio de los días 19 a 22/9/92.
- (j) promedio de los días 23 a 26/9/92.
- (k) promedio de los días 27 a 30/9/92.
- (l) promedio de los días 1 a 4/10/92.
- (m) promedio de los días 5 a 8/10/92.
- (n) promedio de los días 9 a 13/10/92.
- (o) promedio de los días 14 a 16/10/92.

SISTEMA CATAMARCA

TABLA N° 212 - REMOCIONES DE SOLIDOS SEDIMENTABLES (Cont.)

FECHA	10 MINUTOS			2 HORAS		
	(ml/l)			(ml/l)		
	CRUDO	EFLUENTE	REMOCION (%)	CRUDO	EFLUENTE	REMOCION (%)
(p)	3.0	0.1	96.7	3.4	0.1	97.1
(q)	2.6	0.2	92.3	3.1	0.2	93.5
(r)	3.0	0.2	93.3	3.5	0.3	91.4
(s)	2.9	0.1	96.6	3.1	0.2	93.5
(t)	3.0	0.1	96.7	3.3	0.2	93.9
(u)	3.2	ND	96.9	3.7	0.1	97.3
(v)	2.7	0.1	96.3	3.2	0.1	96.9
(w)	2.9	0.1	96.6	3.5	0.1	97.1
(x)	2.6	ND	96.2	3.4	0.1	97.1
4/12/92	3.0	ND	96.7	3.5	0.1	97.1

NOTAS: ND = no detectado (límite detección: 0,1 ml/l)

(p) promedio de los días 17 a 19/10/92.

(q) promedio de los días 20 a 23/10/92.

(r) promedio de los días 24 a 28/10/92.

(s) promedio de los días 29/10 a 1/11/92.

(t) promedio de los días 2 a 5/11/92.

(u) promedio de los días 19 a 21/11/92.

(v) promedio de los días 22 a 25/11/92.

(w) promedio de los días 26 a 29/11/92.

(x) promedio de los días 1 a 3/12/92.

SISTEMA CATAMARCA

TABLA Nº 213 - REMOCIONES DE NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
(a)	19.32	13.16	31.9
(b)	26.68	18.32	31.3
7/9/92	20.16	16.24	19.4
(c)	19.04	12.04	36.8
21/9/92	3.00	2.20	26.7
24/9/92	3.00	3.00	0.0
28/9/92	4.80	1.50	68.8
1/10/92	5.20	3.00	42.3
5/10/92	5.60	3.40	39.3
9/10/92	5.60	2.20	60.7
13/10/92	6.00	3.30	45.0
26/10/92	6.40	3.00	53.1
30/10/92	5.40	3.00	44.4
22/11/92	6.80	3.60	47.1

NOTAS: (a) promedio días 24 y 26/8/92.

(b) promedio días 31/8 y 3/9/92.

(c) promedio días 14 y 16/9/92.

TABLA Nº 214 - REMOCIONES DE NITROGENO AMONIAICAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
(a)	8.96	4.48	50.0
(b)	11.20	11.80	0.0
(c)	10.64	5.59	47.5
(d)	8.96	3.92	56.3
21/9/92	0.80	0.60	25.0
24/9/92	0.80	0.80	0.0
28/9/92	1.30	0.90	30.8
1/10/92	1.40	0.80	42.9
5/10/92	1.50	0.90	40.0
9/10/92	1.50	0.60	60.0
13/10/92	1.60	0.90	43.8
18/10/92	1.50	1.40	6.7
26/10/92	1.70	0.80	52.9
30/10/92	1.40	0.70	50.0
22/11/92	2.50	1.20	52.0

NOTAS: (a) promedio días 24 y 26/8/92.

(b) promedio días 31/8 y 3/9/92.

(c) promedio días 7 y 10/9/92.

(d) promedio días 14 y 16/9/92.

SISTEMA CATAMARCA

TABLA N° 215 - REMOCIONES DE NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
26/8/92	0.03	ND	66.7
(a)	2.50	1.00	60.0
(b)	4.50	0.46	89.8
(c)	1.10	0.26	76.4
21/9/92	0.05	0.03	40.0
1/10/92	0.01	0.02	0.0

NOTAS:

ND = no detectado (límite detección: 0.01 mg/l)

(a) promedio días 31/8 y 3/9/92.

(b) promedio días 7 y 10/9/92.

(c) promedio días 14 y 16/9/92.

TABLA N° 216 - REMOCIONES DE FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
24/8/92	12.00	1.50	87.5
(a)	22.81	16.46	27.8
(b)	14.66	7.50	48.8
21/9/92	28.00	6.00	78.6
24/9/92	32.00	15.00	53.1
28/9/92	44.00	12.00	72.7
1/10/92	32.00	12.00	62.5
5/10/92	32.00	10.50	67.2
9/10/92	44.00	15.00	65.9
13/10/92	36.00	15.00	58.3
26/10/92	40.00	15.00	62.5
30/10/92	44.00	15.00	65.9
22/11/92	46.00	28.00	39.1

NOTAS:

(a) promedio días 7 y 10/9/92.

(b) promedio días 14 y 16/9/92.

SISTEMA CATAMARCA

TABLA N° 217 - REMOCIONES DE FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
26/8/92	5.00	2.00	60.0
3/9/92	8.00	6.00	25.0
(a)	10.00	5.50	45.0
(b)	9.50	4.50	52.6
21/9/92	7.00	4.00	42.9
28/9/92	11.00	8.00	27.3
1/10/92	8.00	8.00	0.0
5/10/92	8.00	7.00	12.5
9/10/92	11.00	10.00	9.1
22/10/92	4.00	2.00	50.0
30/10/92	13.00	9.00	30.8
22/11/92	20.00	12.00	40.0

NOTAS:

(a) promedio días 7 y 10/9/92.

(b) promedio días 14 y 16/9/92.

TABLA N° 218 - REMOCIONES DE GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
24/8/92	12	4	66.7

TABLA N° 219 - REMOCIONES DE MICROORGANISMOS INDICADORES

FECHA	PARAMETRO (NMP/100 ml)									
	COLITOTALES			COLIFECALIS			STREPTOCOCCUS FAECALIS			
	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	
(a)	4.9E+07	3.3E+06	93.3	1.1E+07	1.2E+06	89.1	4.5E+04	1.0E+04	77.8	
(b)	2.7E+08	1.4E+08	48.1	1.6E+07	7.1E+06	55.6	7.5E+05	2.2E+05	70.7	
(c)	9.2E+07	4.8E+07	47.8	3.7E+07	7.9E+06	78.6				
(d)	9.6E+07	4.7E+07	51.0	1.9E+07	9.7E+06	48.9				
21/9/92	1.4E+07	5.1E+06	63.6	1.3E+06	4.5E+05	65.4				
24/9/92	8.5E+06	3.6E+05	95.8	7.6E+05	3.2E+04	95.8				
28/9/92	2.1E+06	7.1E+05	66.2	1.9E+05	6.4E+04	66.3				
1/10/92	1.1E+06	4.9E+05	55.5	1.0E+05	4.4E+04	56.0				
5/10/92	1.2E+06	5.1E+05	57.5	1.1E+06	4.5E+05	59.1				
9/10/92	2.1E+06	1.3E+06	38.1	1.9E+05	1.1E+05	42.1				
13/10/92	3.2E+07	1.7E+06	94.7	2.9E+06	1.5E+05	94.8				
18/10/92	1.6E+07	7.6E+05	95.3	1.4E+06	6.8E+04	95.1				
22/10/92	1.7E+07	7.3E+05	95.7	1.6E+06	6.6E+04	95.9				
26/10/92	1.3E+06	5.0E+05	61.5	2.0E+05	8.0E+04	60.0				
30/10/92	1.6E+06	6.5E+05	59.4	2.0E+05	5.0E+04	75.0				
22/11/92	2.0E+06	1.3E+05	93.5	3.0E+05	1.0E+05	66.7				

NOTAS:

- (a) promedio días 24 y 26/8/92.
 (b) promedio días 31/8 y 3/9/92.
 (c) promedio días 7 y 10/9/92.
 (d) promedio días 14 y 16/9/92.

SISTEMA CATAMARCA

TABLA N° 220 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
21/09/92	70	65	7.1
28/09/92	43	60	0.0
01/10/92	118	96	18.6
05/10/92	82	92	0.0
30/10/92	112	100	10.7
22/11/92	85	80	5.9

TABLA N° 221 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
21/09/92	45	44	2.2
28/09/92	42	50	0.0
01/10/92	62	49	21.0
05/10/92	45	45	0.0
09/10/92	43	44	0.0
13/10/92	54	56	0.0
30/10/92	85	69	18.8
22/11/92	78	47	39.7

TABLA N° 222 - REMOCIONES DE DQO EN LA LAGUNA 1°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
01/10/92	135	122	9.6
05/10/92	130	135	0.0
09/10/92	96	100	0.0
26/10/92	138	90	34.8
30/10/92	137	100	27.0
22/11/92	98	83	15.3

SISTEMA CATAMARCA

**TABLA N° 223 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA 1°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
21/09/92	36	49	0.0
28/09/92	108	76	29.6
05/10/92	33	35	0.0
09/10/92	66	66	0.0
13/10/92	76	70	7.9
26/10/92	88	94	0.0
30/10/92	160	135	15.6

**TABLA N° 224 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA 1°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
28/09/92	4.80	4.50	6.2
01/10/92	5.20	3.00	42.3
05/10/92	5.60	2.20	60.7
09/10/92	5.60	3.70	33.9
13/10/92	6.00	3.00	50.0
26/10/92	6.40	5.90	7.8
30/10/92	5.40	3.80	29.6
22/11/92	6.80	2.30	66.2

**TABLA N° 225 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA 1°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 1° (mg/l)	REMOCION PORCENTUAL
21/09/92	28.00	24.00	14.3
28/09/92	44.00	36.00	18.2
01/10/92	32.00	28.00	12.5
05/10/92	32.00	24.00	25.0
09/10/92	44.00	32.00	27.3
13/10/92	36.00	28.00	22.2
26/10/92	40.00	18.00	55.0
30/10/92	44.00	36.00	18.2

SISTEMA CATAMARCA

TABLA N° 226 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 1°

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION		CRUDO	SALIDA LAG. REMOCION	
	(NMP/100ml)	1° (NMP/100ml)	(%)	(NMP/100ml)	1° (NMP/100ml)	(%)
21/09/92	1.4E+07	9.6E+06	31.4	1.3E+06	8.8E+05	32.3
24/09/92	8.5E+06	3.2E+06	62.4	7.6E+05	6.4E+05	15.8
28/09/92	2.1E+06	1.3E+06	38.1	1.9E+05	1.5E+05	21.1
01/10/92	1.1E+06	8.2E+05	25.5	1.0E+05	6.0E+04	40.0
05/10/92	1.2E+06	1.0E+06	16.7	1.1E+06	1.0E+06	9.1
09/10/92	2.1E+06	1.5E+06	28.6	1.9E+05	1.4E+05	26.3
13/10/92	3.2E+07	2.1E+07	34.4	2.9E+06	1.9E+06	34.5
26/10/92	1.3E+06	1.2E+06	7.7	2.0E+05	1.0E+05	50.0
30/10/92	1.6E+06	1.2E+06	25.0	2.0E+05	1.0E+05	50.0
22/11/92	2.0E+06	1.6E+06	20.0	3.0E+05	1.5E+05	50.0

SISTEMA CATAMARCA

TABLA N° 227 - REMOCIONES DE DBO5 TOTAL EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
21/09/92	65	64	1.5
01/10/92	96	76	20.8
30/10/92	100	94	6.0

TABLA N° 228 - REMOCIONES DE DBO5 SOLUBLE EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
21/09/92	44	43	2.3
28/09/92	50	54	0.0
01/10/92	49	40	18.4
05/10/92	45	40	11.1
09/10/92	44	35	20.5
13/10/92	56	70	0.0
30/10/92	69	35	49.3

TABLA N° 229 - REMOCIONES DE DQO EN LA LAGUNA 2°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
28/09/92	103	92	10.7
05/10/92	135	106	21.5
26/10/92	90	97	0.0
30/10/92	100	96	4.0
22/11/92	83	59	28.9

SISTEMA CATAMARCA

**TABLA N° 230 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA 2°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
21/09/92	49	47	4.1
28/09/92	76	100	0.0
09/10/92	66	62	6.1
13/10/92	70	65	7.1
26/10/92	94	104	0.0
30/10/92	135	138	0.0

**TABLA N° 231 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA 2°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
28/09/92	4.50	4.10	8.9
01/10/92	3.00	4.10	0.0
05/10/92	2.20	3.40	0.0
09/10/92	3.70	2.60	29.7
13/10/92	3.00	3.60	0.0
26/10/92	5.90	6.20	0.0
30/10/92	3.80	3.30	13.2
22/11/92	2.30	2.50	0.0

**TABLA N° 232 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA 2°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 2° (mg/l)	REMOCION PORCENTUAL
21/09/92	24.00	6.00	75.0
28/09/92	36.00	16.00	55.6
01/10/92	28.00	12.00	57.1
05/10/92	24.00	10.00	58.3
09/10/92	32.00	7.00	78.1
13/10/92	28.00	7.00	75.0
26/10/92	18.00	21.00	0.0
30/10/92	36.00	12.00	66.7

SISTEMA CATAMARCA

TABLA N° 233 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 2°

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FECALES		
	CRUDO	SALIDA LAG. REMOCION 2°	REMOCION (%)	CRUDO	SALIDA LAG. REMOCION 2°	REMOCION (%)
	(NMP/100ml)	(NMP/100ml)		(NMP/100ml)	(NMP/100ml)	
21/09/92	9.6E+06	7.3E+06	24.0	8.8E+05	7.5E+05	14.8
24/09/92	3.2E+06	1.6E+06	50.0	6.4E+05	2.2E+05	65.6
28/09/92	1.3E+06	1.0E+06	23.1	1.5E+05	1.3E+05	13.3
01/10/92	8.2E+05	5.9E+05	28.0	6.0E+04	6.0E+04	0.0
05/10/92	1.0E+06	6.7E+05	33.0	1.0E+06	8.5E+05	15.0
09/10/92	1.5E+06	1.3E+06	13.3	1.4E+06	1.3E+06	7.1
13/10/92	2.1E+07	1.9E+07	9.5	1.9E+06	1.9E+06	0.0
26/10/92	1.2E+06	1.0E+06	16.7	1.0E+05	1.0E+05	0.0
30/10/92	1.2E+06	1.2E+06	0.0	1.0E+05	1.0E+05	0.0
22/11/92	1.6E+06	1.4E+06	12.5	1.5E+05	1.5E+05	0.0

SISTEMA CATAMARCA

TABLA N° 234 - REMOCIONES DE DBO5 TOTAL EN LA
LAGUNA 3° - LAGUNA 4°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
21/09/92	64	38	40.6
01/10/92	76	66	13.2
26/10/92	75	53	29.3
30/10/92	94	30	68.1

TABLA N° 235 - REMOCIONES DE DBO5 SOLUBLE EN LA
LAGUNA 3° - LAGUNA 4°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
21/09/92	33	31	6.1
28/09/92	54	39	27.8
01/10/92	40	43	0.0
05/10/92	40	38	5.0
09/10/92	35	29	17.1
13/10/92	70	31	55.7
26/10/92	61	44	27.9
30/10/92	35	23	34.3

TABLA N° 236 - REMOCIONES DE DQO EN LA LAGUNA 3° - LAGUNA 4°

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
28/09/92	92	68	26.1
05/10/92	106	103	2.8
26/10/92	97	63	35.1
30/10/92	96	73	24.0
22/11/92	59	49	16.9

SISTEMA CATAMARCA

**TABLA N° 237 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES
EN LA LAGUNA 3° - LAGUNA 4°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
21/09/92	47	18	61.7
28/09/92	100	65	35.0
09/10/92	62	55	11.3
13/10/92	65	38	41.5
26/10/92	104	56	46.2
30/10/92	138	32	76.8

**TABLA N° 238 - REMOCIONES DE NITROGENO TOTAL KJELDAHL
EN LA LAGUNA 3° - LAGUNA 4°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
28/09/92	4.10	1.50	63.4
01/10/92	4.10	3.00	26.8
05/10/92	3.40	3.40	0.0
09/10/92	2.60	2.20	15.4
13/10/92	3.60	3.30	8.3
26/10/92	6.20	3.00	51.6
30/10/92	3.30	3.00	9.1
22/11/92	2.50	3.60	0.0

**TABLA N° 239 - REMOCIONES DE FOSFORO TOTAL EN LA
LAGUNA 3° - LAGUNA 4°**

FECHA	CRUDO (mg/l)	SALIDA LAGUNA 3° (mg/l)	REMOCION PORCENTUAL
21/09/92	6.00	6.00	0.0
28/09/92	16.00	12.00	25.0
01/10/92	12.00	12.00	0.0
05/10/92	10.00	10.50	0.0
09/10/92	7.00	15.00	0.0
13/10/92	7.00	15.00	0.0
26/10/92	21.00	15.00	28.6
30/10/92	12.00	15.00	0.0

SISTEMA CATAMARCA

TABLA N° 240 - REMOCIONES DE MICROORGANISMOS INDICADORES EN LA LAGUNA 3° - LAGUNA 4°

FECHA	PARAMETRO					
	COLIFORMES TOTALES			COLIFORMES FCALES		
	CRUDO	SALIDA LAG. REMOCION		CRUDO	SALIDA LAG. REMOCION	
	(NMP/100ml)	3° (NMP/100ml)	(%)	(NMP/100ml)	3° (NMP/100ml)	(%)
21/09/92	7.3E+06	5.1E+06	30.1	7.5E+05	4.5E+05	40.0
24/09/92	1.6E+06	3.6E+05	77.5	2.2E+05	3.2E+04	85.5
28/09/92	1.0E+06	7.1E+05	29.0	1.3E+05	6.4E+04	50.8
01/10/92	5.9E+05	4.9E+05	16.9	6.0E+04	4.4E+04	26.7
05/10/92	6.7E+05	5.1E+05	23.9	8.5E+05	4.5E+05	47.1
09/10/92	1.3E+06	1.3E+06	0.0	1.3E+06	1.1E+05	91.5
13/10/92	1.9E+07	1.7E+06	91.1	1.9E+06	1.5E+05	92.1

SISTEMA CATAMARCA

TABLA N° 241 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE CINETICA DE REMOCION DE BACTERIAS COLIFORMES TOTALES (KbT)

FECHA	DIA	C.TOTALES MNP/100ml	No/N	ln (No/N)
7/8/92	1	4.4E+10	1.0000	0.0000
8/8/92	2	4.4E+10	1.0000	0.0000
9/8/92	3	2.8E+10	1.5714	0.4520
10/8/92	4	2.4E+08	183.3333	5.2113
11/8/92	5	4.4E+07	1000.0000	6.9078
12/8/92	6	3.2E+07	1375.0000	7.2272
13/8/92	7	8.4E+06	5238.10	8.5637
14/8/92	8	3.2E+06	13750.00	9.5288
15/8/92	9	6.4E+05	68750.00	11.1382
16/8/92	10	6.4E+04	687500.00	13.4408

TABLA N° 242 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE CINETICA DE REMOCION DE BACTERIAS COLIFORMES FECALES (Kb)

FECHA	DIA	C.FECALES MNP/100ml	No/N	ln (No/N)
7/8/92	1	4.0E+09	1.0000	0.0000
8/8/92	2	4.0E+09	1.0000	0.0000
9/8/92	3	---	---	---
10/8/92	4	---	---	---
11/8/92	5	4.8E+06	833.3333	6.7254
12/8/92	6	8.0E+05	5000.0000	8.5172
13/8/92	7	4.0E+05	10000.0000	9.2103
14/8/92	8	1.0E+05	40000.0000	10.5966
15/8/92	9	2.0E+04	200000.0000	12.2061
16/8/92	10	1.0E+03	4000000.0000	15.2018

TABLA N° 243 - CONSTANTE DE DESOXIGENACION (k).

DBO5	DBO _u	k	TIPO DE MUESTRA
138	192	0.11	CRUDO
89	125	0.11	EFLUENTE

SISTEMA CATAMARCA

TABLA N° 244 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE CINETICA DE REMOCION DE BACTERIAS COLIFORMES TOTALES (KbT)

FECHA ENSAYO : 17 - 25/10/92

TEMPERATURA : 23 °C

DIA	C.TOTALES MNP/100ml	No/N	ln (No/N)
1	1.7E+07	1.0000	0.0000
2	2.7E+07	0.6296	-0.4626
3	2.1E+07	0.8095	-0.2113
4	1.6E+07	1.0625	0.0606
5	9.0E+06	1.8889	0.6360
6	6.0E+06	2.8333	1.0415
7	2.0E+05	85.0000	4.4427

TABLA N° 245 - ENSAYO BATCH PARA LA DETERMINACION DE LA CONSTANTE CINETICA DE REMOCION DE BACTERIAS COLIFORMES FECALES (Kb)

FECHA ENSAYO : 17 - 25/10/92

TEMPERATURA : 23 °C

DIA	C.FECALES MNP/100ml	No/N	ln (No/N)
1	1.5E+06	1.0000	0.0000
2	2.4E+06	0.6250	-0.4700
3	1.8E+06	0.8333	-0.1823
4	1.4E+06	1.0417	0.0408
5	6.0E+05	2.5000	0.9163
6	2.0E+05	7.5000	2.0149
7	< 2000	750.0000	6.6201

TABLA N° 246 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CINETICA
DE REMOCION DE MATERIA ORGANICA (K)
TEMPERATURA MEDIA = 25 °C

FECHA	DIA	DBO5 mg/l	So/S	ln (So/S)
02/12/92	1	129	1.0000	0.0000
03/12/92	2	136	0.9485	-0.0528
04/12/92	3	126	1.0238	0.0235
05/12/92	4	68	1.8971	0.6403
06/12/92	5	60	2.1500	0.7655
07/12/92	6	65	1.9846	0.6854
08/12/92	7	47	2.7447	1.0097
09/12/92	8	39	3.3077	1.1963
10/12/92	9	21	6.1429	1.8153
11/12/92	10	26	4.9615	1.6017

TABLA N° 247 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE DE CINETICA DE LA
REMOCION DE BACTERIAS COLIFORMES FECALES TOTALES (KbT)

FECHA	DIA	C. TOTALES NMP/100 ml	No/N	ln (No/N)
02/12/92	1	5.2E+06	1.0000	0.0000
03/12/92	2	7.0E+06	0.7429	-0.2973
04/12/92	3	7.6E+06	0.6842	-0.3795
05/12/92	4	6.6E+06	0.7879	-0.2384
06/12/92	5	5.0E+06	1.0400	0.0392
07/12/92	6	4.4E+06	1.1818	0.1671
08/12/92	7	1.4E+06	3.7143	1.3122
09/12/92	8	1.2E+06	4.3333	1.4663
10/12/92	9	1.3E+06	4.0000	1.3863
11/12/92	10	7.5E+05	6.9333	1.9363

TABLA N° 248 - ENSAYO PARA LA DETERMINACION DE LA CONSTANTE CIENTICA
DE LA REMOCION DE LAS BACTERIAS COLIFORMES FECALES (Kb)

FECHA	DIA	C. FECALES NMP/100 ml	No/N	ln (No/N)
02/12/92	1	6.4E+05	1.0000	0.0000
03/12/92	2	6.5E+05	0.9846	-0.0155
04/12/92	3	6.8E+05	0.9412	-0.0606
05/12/92	4	6.0E+05	1.0667	0.0645
06/12/92	5	3.8E+05	1.6842	0.5213
07/12/92	6	3.8E+05	1.6842	0.5213
08/12/92	7	1.0E+05	6.4000	1.8563
09/12/92	8	7.5E+04	8.5333	2.1440
10/12/92	9	4.0E+04	16.0000	2.7726
11/12/92	10	1.5E+04	42.6667	3.7534

TABLA N° 249 - CONSTANTE DE DESOXIGENACION (k)

DBO5	DBOu	k	TIPO DE MUESTRA
108	257	0.05	CRUDO
87	198	0.05	EFLUENTE

SISTEMA: CATAMARCA

TABLA N°: ..250.. - EXAMEN MICROBIOLOGICO DE PLANCTON

(Fecha: 30-10-92)

FITOPLANCTON	
Organismos Vegetales	
Organismos/litro	
EUGLENOPHYCEAE	
<u>Euglena</u> sp.	3.000
<u>Phacus</u> sp.	100
CHLOROPHYCEA	
<u>Scenedesmus</u> sp.	500
<u>Pediastrum</u> sp.	100
<u>Closterium</u> sp.	200
<u>Chlorella</u> sp.	400
<u>Coelastrum</u> sp.	100
ZOOPLANCTON	
Organismos Animales	
ROTIFERA	30
OBSERVACIONES: La presencia de <u>Euglena</u> sp. y <u>Oscillato-</u> <u>ria</u> sp. es característica de ambientes con alto contenido de materia orgánica en proceso de degradación.	

NOTA: Examen realizado en Laboratorio de OSN

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS

FECHA	DIA OPERATIVO	HORA	CRUDO °C	SAL. LAG. I °C	SAL. LAG. III °C
12/6/92	1	9.00	13.0	8.0	8.0
	1	11.00	14.0	9.0	8.0
	1	15.00	14.0	9.0	8.0
13/6/92	2				
14/6/92	3				
15/6/92	4	10.00	13.0	8.0	7.0
	4	12.00	14.0	9.0	8.0
	4	16.30	15.0	9.0	8.0
16/6/92	5	9.30	14.0	9.0	8.0
	5	11.30	14.0	9.0	8.0
	5	16.30	16.0	10.0	8.0
17/6/92	6	9.00	14.0	9.0	8.0
	6	11.30	14.0	10.0	9.0
	6	16.00	16.0	11.0	10.0
18/6/92	7	9.00	14.0	9.0	9.0
	7	12.00	15.0	9.0	9.0
	7	17.00	16.0	10.0	9.0
19/6/92	8	9.00	15.0	10.0	9.0
	8	12.00	15.0	10.0	10.0
	8	17.00	17.0	11.0	10.0
20/6/92	9				
21/6/92	10				
22/6/92	11	9.00	13.0	7.0	7.0
	11	12.00	14.0	8.0	7.0
	11	17.00	15.0	7.0	7.0
23/6/92	12	9.00	13.0	6.0	6.0
	12	12.00	14.0	7.0	6.0
	12	17.00	15.0	7.0	7.0
24/6/92	13	9.00	13.0	7.0	7.0
	13	12.00	14.0	7.0	7.0
	13	17.00	16.0	9.0	8.0
25/6/92	14	9.00	13.0	9.0	8.0
	14	12.00	15.0	8.0	8.0
	14	17.00	15.0	9.0	8.0
26/6/92	15	9.00	11.0	6.0	6.0
	15	12.00	14.0	7.0	7.0
	15	17.00	14.0	8.0	7.0
27/6/92	16				
28/6/92	17				
29/6/92	18	9.00	11.0		6.0
	18	12.00	14.0	7.0	6.0
	18	17.00	15.0	7.0	6.0

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO ° C	SAL. LAG. I ° C	SAL. LAG. III ° C
30/6/92	19	9.00	12.0	6.0	6.0
	19	12.00	14.0	7.0	6.0
	19	17.00	15.0	8.0	7.0
1/7/92	20	9	12.0	6.0	6.0
	20	12	14.0	7.0	6.0
	20	17	15.0	8.0	7.0
2/7/92	21	9	12.0	6.0	6.0
	21	12	14.0	7.0	7.0
	21	17	14.0	8.0	7.0
3/7/92	22				
4/7/92	23				
5/7/92	24				
6/7/92	25	9	11.0	6.0	6.0
	25	12	14.0	7.0	7.0
	25	17	14.0	8.0	7.0
7/7/92	26				
8/7/92	27	9	13.0	9.0	7.0
	27	12	13.0	9.0	8.0
	27	17	17.0	10.0	8.0
9/7/92	28				
10/7/92	29	9	15.0	9.0	9.0
	29	12	15.0	12.0	
	29	17	17.0	12.0	10.0
11/7/92	30				
12/7/92	31				
13/7/92	32				
14/7/92	33	9	13	7	7
	33	12	12	8	8
	33	17	14	7	7
15/7/92	34	9	13	7	6
	34	12	13	8	8
	34	17	13	7	8
16/7/92	35	9	13	6	7
	35	12	13	8	7
	35	17	14	8	7
17/7/92	36	9	13	7	7
	36	12	14	9	8
	36	17	15	9	8
18/7/92	37				
19/7/92	38				
20/7/92	39	9	12	7	7
	39	12	13	9	7
	39	17	14	8	8

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO °C	SAL. LAG. I °C	SAL. LAG. III °C
21/7/92	40	9	13	8	8
	40	12	13	7	6
	40	17	12	6	6
22/7/92	41	9	12	7	6
	41	12	12	8	7
	41	17	14	8	7
23/7/92	42	9	10	8	8
	42	12	14	8	7
	42	17	13	8	7
24/7/92	43	9	14	9	
	43	12	13	9	7
25/7/92	44				
28/7/92	45				
27/7/92	46	9	12	7	6
	46	12	13	9	8
	46	17	16	10	9
28/7/92	47				
29/7/92	48	9	13	8	
	48	12	14	9	7
	48	17	14	8	7
30/7/92	49	9	11	7	6
	49	12	14	8	7
	49	17	14	8	7
31/7/92	50	9	9		7
	50	12	13	8	8
	50	17	11	8	6
1/8/92	51				
2/8/92	52				
3/8/92	53	9.40	13	7	7
	53	11.27	13	9	7
	53	17.10	14	9	8
4/8/92	54	10.25	12	8	8
	54	12.10	14	9	8
	54	16.35	15	10	8
5/8/92	55	9.57	13	8	8
	55	12.15	14	9	8
	55	16.40	15	10	9
6/8/92	56	10.30	14	10	9
	56	12.10	14	10	9
	56	16.45	14	10	10
7/8/92	57	10.30	13	9	9
	57	12.10	14	10	9
	57	16.45	13	9	8

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO ° C	SAL. LAG. I ° C	SAL. LAG. III ° C
8/8/92	58				
9/8/92	59				
10/8/92	60	9.45	13	8	8
	60	11.25	14	10	9
	60	16.45	15	10	9
11/8/92	61	10.00	13	9	8
	61	11.55	15		10
	61	16.30	16	11	10
12/8/92	62	9.40	13	10	10
	62	11.30	16	12	10
	62	16.20	16	12	12
13/8/92	63	9.30	13	10	10
	63	11.07	15	10	10
	63	16.15	16	13	12
14/8/92	64	9.35	14	11	10
	64	11.00	15	12	11
	64	16.35	17	15	13
15/8/92	65				
16/8/92	66				
17/8/92	67				
18/8/92	68	9.45	13	10	10
	68	11.30	15	12	10
	68	16.35	16	12	12
19/8/92	69	10.20	15	13	10
	69	11.37	15	13	11
	69	16.30	16	12	12
20/8/92	70	10.10	15	13	11
	70	11.10	16	13	12
	70	16.25	17	13	13
21/8/92	71	10.14	16	15	13
	71	11.40	17	15	16
	71	16.25	17	15	14
22/8/92	72				
23/8/92	73				
24/8/92	74	9.45	15	12	11
	74	11.30	17	15	12
	74	16.35	18	14	14
25/8/92	75	10.00	15	12	12
	75	12.10	17	14	12
	75	16.30	17	13	13
26/8/92	76	10.30	14	11	11
	76	11.45	16	12	12
	76	16.55	17	13	12

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO °C	SAL. LAG. I °C	SAL. LAG. III °C
27/8/92	77	9.35	14	11	11
	77	10.55	16	13	11
	77	16.45	16	11	11
28/8/92	78	9.40	13	10	11
	78	10.40	16	11	10
	78	17.00	14		10
29/8/92	79				
30/8/92	80				
31/8/92	81	11.00	15	10	9
	81	12.10	15	11	10
	81	16.25	15	11	10
1/9/92	82	8.55	12		10
	82	11.00	15	10	10
	82	16.40	16	11	11
2/9/92	83	9.10	14	9	9
	83	10.40	15	10	10
	83	16.30	17	12	11
3/9/92	84	8.40	13	10	9
	84	10.10	15	11	10
	84	16.20	17	13	11
4/9/92	85	9.10	14	11	10
	85	10.40	16	13	11
	85	16.45	15	12	11
07/09/92	88	9.53	15	11	11
	88	12.00	16	12	11
	88	16.50	16	14	13
08/09/92	89	9.14	15	13	12
	89	11.49	17	17	13
	89	16.44	18	16	15
09/09/92	90	10.19	16	14	14
	90	11.58	17	17	16
	90	16.45	18	17	16
10/09/92	91	9.19	16	15	15
	91	11.41	17	16	16
	91	16.50	18	17	17
11/09/92	92	9.28	14		15
	92	11.41	17	15	15
	92	16.55	16	13	14
14/09/92	95	8.59	16	12	12
	95	11.26	17	13	13
	95	16.50	18	13	13
15/09/92	96	8.55	16	11	11
	96	11.39	16	12	12
	96	16.53	16	13	13

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO °C	SAL. LAG. I °C	SAL. LAG. III °C
16/09/92	97	9.06	16	12	12
	97	11.45	17	14	13
	97	16.54	18	14	13
17/09/92	98	8.56	16	12	12
	98	11.45	17	13	13
	98	16.58	16	13	13
18/09/92	99	9.39	15	12	11
	99	11.46	17	12	12
	99	17.15	16	13	13
21/09/92	102	9.40	15	14	12
	102	11.45	16	13	12
	102	16.59	17	13	13
22/09/92	103	9.23	14	9	9
	103	11.49	16	12	11
	103	16.54	15	10	10
23/09/92	104	9.18	16	10	9
	104	11.46	17	12	10
	104	17.13	17	12	11
24/09/92	105	9.39	16	10	9
	105	11.51	16	11	10
	105	17.21	16		10
25/09/92	106	9.31	16	10	9
	106	11.46	16	12	10
	106	17.11	16	12	12
28/09/92	109	9.53	17	15	13
	109	11.41	18	18	15
	109	16.58	19	17	17
29/09/92	110	9.05	16	15	15
	110	11.51	19	19	16
	110	16.51	19	17	17
30/09/92	111	9.45	17	16	15
	111	11.55	18	18	17
	111	16.59	18	17	18
01/10/92	112	8.50	17	16	15
	112	11.53	18	17	17
	112	16.54	18	16	16
02/10/92	113	9.13	17	14	13
	113	11.50	18	17	15
	113	17.10	18	15	
05/10/92	116	9.30	16	13	12
	116	11.34	17	14	13
	116	16.38	18	15	14
06/10/92	117	9.28	15	12	12
	117	11.06	16	14	12
	117	16.01	17	14	14

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO °C	SAL. LAG. I °C	SAL. LAG. III °C
07/10/92	118	10.03	17	13	13
	118	11.38	17	16	14
	118	16.43	17	15	15
08/10/92	119	9.30	17	15	15
	119	11.51	18	18	17
	119	15.56	18	17	18
09/10/92	120	9.23	18	17	16
	120	11.53	19	18	18
	120	16.10	20	20	20
13/10/92	124	9.26	18	17	15
	124	11.23	19	18	16
	124	15.58	20	18	17
14/10/92	125	9.33	17	14	14
	125	12.01	19	15	14
	125	15.46	20	19	18
15/10/92	126	9.14	17	14	14
	126	12.03	20	16	16
	126	16.05	18	15	15
16/10/92	127	9.05	18	15	14
	127	11.56	19	17	16
	127	15.39	19	17	18
19/10/92	130	10.00	18	16	15
	130	11.55	19	17	16
	130	15.53	19	16	16
20/10/92	131	9.05	16	14	13
	131	11.56	19	18	15
	131	15.56	20	18	17
21/10/92	132	9.49	19	18	15
	132	11.45	20	19	17
	132	16.05	21	20	19
22/10/92	133	9.24	20	18	17
	133	11.44	22	20	19
	133	16.03	22	21	20
23/10/92	134	10.25	19	18	17
	134	12.25	20	19	18
	134	16.24	20	19	18
26/10/92	137	9.25	18	15	14
	137	12.00	20	16	16
	137	15.50	21	18	17
27/10/92	138	9.40	18	13	11
	138	11.39	18	13	12
	138	15.55	17	14	13
28/10/92	139	10.23	17	17	
	139	12.05	19	14	13
	139	16.18	19	14	14

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO °C	SAL. LAG. I °C	SAL. LAG. III °C
29/10/92	140	9.46	17	12	11
	140	11.55	18	11	11
30/10/92	141	9.11	17	11	11
	141	11.44	18	12	12
	141	16.08	20	15	14
02/11/92	144	8.53	17	11	11
	144	11.05	18	13	12
03/11/92	145	8.19	15	12	11
	145	11.09	18	12	12
	145	15.25	18	13	13
04/11/92	146	9.29	18	13	12
	146	11.01	19	14	13
05/11/92	147	8.21	18	15	15
	147	11.04	18	16	16
	147	17.49	20	18	19
06/11/92	148	8.24	19	17	17
	148	11.04	20	18	19
	148	15.35	23	24	21
10/11/92	152	8.30	16	15	17
	152	11.01	20	16	18
	152	15.11	19	18	18
11/11/92	153	9.39	17	15	16
	153	11.13	19	17	16
	153	15.14	20	17	18
12/11/92	154	8.33	19	17	17
	154	11.04	21	20	20
13/11/92	155	8.40	19	18	19
	155	11.01	19	19	19
	155	15.40	20	18	19
16/11/92	158	8.35	18	16	17
	158	11.06	19	18	19
	158	15.03		19	
17/11/92	159	7.54	18	17	17
	159	10.58	21	21	20
	159	15.14	21	20	
18/11/92	160	8.06	20	20	20
	160	11.09	21	21	21
	160	15.19	22	21	22
19/11/92	161	8.21	19	19	20
	161	11.09	21	20	22
	161	15.51	21	21	
20/11/92	162	8.11	17	17	19
	162	11.05	19	16	18
	162	15.25	19	16	18

TABLA Nro. 251 - SISTEMA "PTO. MADRYN"
TEMPERATURAS (cont.)

FECHA	DIA OPERATIVO	HORA	CRUDO °C	SAL. LAG. I °C	SAL. LAG. III °C
23/11/92	165	11.44	19	18	18
	165	11.08	20	19	20
	165	15.16	23	23	22
24/11/92	166	8.14	18	16	18
	166	11.06	20	16	17
	166	16.44	18	17	19
25/11/92	167	8.36	18	15	16
	167	10.46	18	17	17
	167	14.56	20	18	19
26/11/92	168	8.36	19	17	18
	168	11.06	20	19	19
	168	15.41	20	19	20
27/11/92	169	8.35	19	19	19
	169	11.05	21	21	21
	169	15.43	23	23	24
30/11/92	172	8.45	20	20	19
	172	11.08	20	20	20
	172	15.05	21	20	21
01/12/92	173	8.45	20	19	18
	173	11.01	20	18	20
	173	15.16	22	19	
02/12/92	174	8.28	19	17	19
	174	11.11	22	21	20
	174	15.43	21	20	21
03/12/92	175	8.30	20	19	19
	175	11.08	21	18	
	175	15.13	22	20	22
04/12/92	176	8.23	20	19	19
	176	11.08	21	20	20
	176	16.26	22	21	22
07/12/92	179	8.08	21	21	20
	179	10.55	21	21	21
	179	15.20	24	24	25
09/12/92	181	8.51	21	21	20
	181	11.09	22	21	22
	181	15.16	22	20	22
10/12/92	182	8.18	21	20	20
	182	10.48	22	21	21
	182	15.40	24	22	23
11/12/92	183	8.14	20	19	20
	183	11.03	23	23	23
	183	15.14	25	25	26

TABLA Nro. 252 - SISTEMA "PTO. MADRYN"
TEMPERATURAS MEDIAS DIARIAS

FECHA	DIA OPERATIVO	AMBIENTE MEDIA °C	CRUDO MEDIA °C	SAL. LAG. I MEDIA °C	SAL. LAG. III MEDIA °C
12/6/92	1	7.0	13.7	8.7	8.0
15/6/92	4	6.0	14.0	8.7	7.7
16/6/92	5	7.0	14.7	9.3	8.0
17/6/92	6	8.5	14.7	10.0	9.0
18/6/92	7	5.5	15.0	9.3	9.0
19/6/92	8	9.5	15.7	10.3	9.7
22/6/92	11	5.0	14.0	7.3	7.0
23/6/92	12	1.0	14.0	6.7	6.3
24/6/92	13	1.5	14.3	7.7	7.3
25/6/92	14	5.5	14.3	8.7	8.0
26/6/92	15	2.5	13.0	7.0	6.7
29/6/92	18	2.0	13.3	7.0	6.0
30/6/92	19	0.5	13.7	7.0	6.3
1/7/92	20	2.5	13.7	7.0	6.3
2/7/92	21	1.0	13.3	7.0	6.7
6/7/92	25	3.0	13.0	7.0	6.7
8/7/92	27	8.5	14.3	9.3	7.7
10/7/92	29	12.0	15.7	11.0	9.5
14/7/92	33	2.0	13.0	7.3	7.3
15/7/92	34	0.0	13.0	7.3	7.3
16/7/92	35	0.5	13.3	7.3	7.0
17/7/92	36	5.0	14.0	8.3	7.7
20/7/92	39	3.5	13.0	8.0	7.3
21/7/92	40	3.5	12.7	7.0	6.7
22/7/92	41	2.0	12.7	7.7	6.7
23/7/92	42	5.0	12.3	8.0	7.3
24/7/92	43	6.0	13.5	9.0	7.0
27/7/92	46	8.0	13.7	8.7	7.7
29/7/92	48	1.5	13.7	8.3	7.0
30/7/92	49	-2.5	13.0	7.7	6.7
31/7/92	50	1.5	11.0	8.0	7.0
3/8/92	53	6.0	13.3	8.3	7.3
4/8/92	54	3.5	13.7	9.0	8.0
5/8/92	55	3.5	14.0	9.0	8.3
6/8/92	56	6.5	14.0	10.0	9.3
7/8/92	57	6.5	13.3	9.3	8.7
10/8/92	60	6.5	14.0	9.3	8.7
11/8/92	61	8.0	14.7	10.0	9.3
12/8/92	62	10.0	15.0	11.3	10.7
13/8/92	63	8.5	14.7	11.0	10.7
14/8/92	64	15.0	15.3	12.7	11.3

TABLA Nro. 252 - SISTEMA "PTO. MADRYN"
TEMPERATURAS MEDIAS DIARIAS (cont.)

FECHA	DIA OPERATIVO	AMBIENTE MEDIA °C	CRUDO MEDIA °C	SAL. LAG. I MEDIA °C	SAL. LAG. III MEDIA °C
18/8/92	68	8.5	14.7	11.3	10.7
19/8/92	69	8.0	15.3	12.7	11.0
20/8/92	70	11.5	16.0	13.0	12.0
21/8/92	71	14.5	16.7	15.0	14.3
24/8/92	74	10.0	16.7	13.7	12.3
25/8/92	75	11.5	16.3	13.0	12.3
26/8/92	76	9.0	15.7	12.0	11.7
27/8/92	77	6.0	15.3	11.7	11.0
28/8/92	78	6.5	14.3	10.5	10.3
31/8/92	81		15.0	10.7	9.7
1/9/92	82	4.0	14.3	10.5	10.3
2/9/92	83	9.5	15.3	10.3	10.0
3/9/92	84	9.5	15.0	11.3	10.0
4/9/92	85	8.5	15.0	12.0	10.7
07/09/92	88		15.7	12.3	11.7
08/09/92	89	15.0	16.7	15.3	13.3
09/09/92	90	16.0	17.0	16.0	15.3
10/09/92	91	12.5	17.0	16.0	16.0
11/09/92	92	9.5	15.7	14.0	14.7
14/09/92	95	11.0	17.0	12.7	12.7
15/09/92	96	6.0	16.0	12.0	12.0
16/09/92	97	8.0	17.0	13.3	12.7
17/09/92	98	10.0	16.3	12.7	12.7
18/09/92	99	10.0	16.0	12.3	12.0
21/09/92	102	9.5	16.0	13.3	12.3
22/09/92	103	10.0	15.0	10.3	10.0
23/09/92	104	10.5	16.7	11.3	10.0
24/09/92	105	5.0	16.0	10.5	9.7
25/09/92	106	9.0	16.0	11.3	10.3
28/09/92	109	13.0	18.0	16.7	15.0
29/09/92	110	13.0	18.0	17.0	16.0
30/09/92	111	13.5	17.7	17.0	16.7
01/10/92	112	12.5	17.7	16.3	16.0
02/10/92	113	8.5	17.7	15.3	14.0
05/10/92	116	9.5	17.0	14.0	13.0
06/10/92	117	7.0	16.0	13.3	12.7
07/10/92	118	8.5	17.0	14.7	14.0
08/10/92	119	12.0	17.7	16.7	16.7
09/10/92	120	17.0	19.0	18.3	18.0
13/10/92	124	16.5	19.0	17.7	16.0
14/10/92	125	15.0	18.7	16.0	15.3

TABLA Nro. 252 - SISTEMA "PTO. MADRYN"
TEMPERATURAS MEDIAS DIARIAS (cont.)

FECHA	DIA OPERATIVO	AMBIENTE MEDIA °C	CRUDO MEDIA °C	SAL. LAG. I MEDIA °C	SAL. LAG. III MEDIA °C
15/10/92	126	14.5	18.3	15.0	15.0
16/10/92	127	12.0	18.7	16.3	16.0
19/10/92	130	12.0	18.7	16.3	15.7
20/10/92	131	15.0	18.3	16.7	15.0
21/10/92	132	20.5	20.0	19.0	17.0
22/10/92	133	20.0	21.3	19.7	18.7
23/10/92	134	17.0	19.7	18.7	17.7
26/10/92	137	17.0	19.7	16.3	15.7
27/10/92	138	10.0	17.7	13.3	12.0
28/10/92	139	10.0	18.3	15.0	13.5
29/10/92	140	10.5	17.5	11.5	11.0
30/10/92	141	10.0	18.3	12.7	12.3
02/11/92	144	10.5	17.5	12.0	11.5
03/11/92	145	8.0	17.0	12.3	12.0
04/11/92	146	10.5	18.5	13.5	12.5
05/11/92	147	15.5	18.7	16.3	16.7
06/11/92	148		20.7	19.7	19.0
10/11/92	152	11.5	18.3	16.3	17.7
11/11/92	153	15.5	18.7	16.3	16.7
12/11/92	154	17.0	20.0	18.5	18.5
13/11/92	155	15.0	19.3	18.3	19.0
16/11/92	158	12.5	18.5	17.7	18.0
17/11/92	159	25.5	20.0	19.3	18.5
18/11/92	160	20.0	21.0	20.7	21.0
19/11/92	161	16.5	20.3	20.0	21.0
20/11/92	162	11.0	18.3	16.3	18.3
23/11/92	165	18.5	20.7	20.0	20.0
24/11/92	166	18.5	18.7	16.3	18.0
25/11/92	167	18.5	18.7	16.7	17.3
26/11/92	168	18.5	19.7	18.3	19.0
27/11/92	169	20.0	21.0	21.0	21.3
30/11/92	172		20.3	20.0	20.0
01/12/92	173	12.0	20.7	18.7	19.0
02/12/92	174	13.5	20.7	19.3	20.0
03/12/92	175	15.5	21.0	19.0	20.5
04/12/92	176	16.0	21.0	20.0	20.3
07/12/92	179		22.0	22.0	22.0
09/12/92	181	12.5	21.7	20.7	21.3
10/12/92	182	18.5	22.3	21.0	21.3
11/12/92	183	24.0	22.7	22.3	23.0

Nota: Las temperaturas ambiente medias diarias son datos del
Servicio Meteorológico Nacional.

TABLA Nro. 253 - SISTEMA "PTO. MADRYN"
TEMPERATURAS MEDIAS SEMANALES

AMBIENTE SEMANTAL °C	SAL. LAG. I SEMANTAL °C	SAL. LAG. III SEMANTAL °C
6.8	9.2	8.3
4.5	8.1	7.7
1.7	7.0	6.4
5.8	8.2	7.2
3.6	8.3	7.8
3.8	7.8	7.1
3.3	8.4	7.1
4.2	8.9	8.0
7.9	10.2	9.6
10.8	12.4	11.3
10.2	13.1	12.3
7.4	10.7	10.1
13.0	14.3	13.4
8.9	12.9	12.9
9.0	11.6	10.8
12.2	15.7	14.8
9.1	14.8	14.1
15.8	16.8	16.1
15.9	17.6	16.5
12.9	15.0	14.0
10.9	13.4	13.0
14.7	17.7	18.0
17.9	19.2	19.5
17.0	17.5	18.5
15.3	19.6	20.2
17.8	21.2	21.6

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"

pH

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
12/6/92	1	9.00	7.6	7.5	7.4
	1	11.00	8.0	7.5	7.6
	1	15.00	7.7	7.5	7.5
13/6/92	2				
14/6/92	3				
15/6/92	4	10.00	7.8	7.2	7.3
	4	12.00	7.8	7.3	7.3
	4	16.30	7.0	7.4	7.4
16/6/92	5	9.30	7.8	7.4	7.3
	5	11.30	7.9	7.4	7.4
	5	16.30	7.8	7.5	7.5
17/6/92	6	9.00	7.8	7.3	7.3
	6	11.30	7.9	7.2	7.2
	6	16.00	7.7	7.3	7.3
18/6/92	7	9.30	7.8	7.4	7.5
	7	12.00	8.0	7.5	7.6
	7	17.00	7.7	7.4	7.5
19/6/92	8	10.00	7.9	7.4	7.5
	8	12.00	7.9	7.5	7.5
	8	16.00	7.8	7.5	7.5
	9				
	10				
22/6/92	11	10.00	8.0	7.6	7.8
	11	12.00	8.0	7.6	7.7
	11	17.00	7.8	7.6	7.8
23/6/92	12	9.30	7.9	7.6	7.7
	12	11.30	8.1	7.7	7.6
	12	17.00	7.9	7.8	7.7
24/6/92	13	10.00	7.9	7.8	7.7
	13	12.00	8.1	7.8	7.8
	13	17.00	7.9	7.9	7.8
25/6/92	14	10.00	8.0	7.6	7.8
	14	12.00	8.0	7.7	7.7
	14	17.00	7.9	7.8	7.7
26/6/92	15	10.00	7.9	7.5	7.6
	15	12.00	8.2	7.7	7.7
	15	17.00	7.9	7.7	7.7
	16				
	17				
29/6/92	18	10.00	8.0	7.6	7.7
	18	12.00	8.5	7.8	7.9
	18	17.00	7.9	7.7	7.7
30/6/92	19	10.00	8.0	7.8	7.6
	19	12.00	8.1	7.5	7.6
	19	17.00	7.8	7.7	7.7

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
1/7/92	20	10.00	8.0	7.6	7.7
	20	12.00	8.3	7.7	7.8
	20	17.00	8.0	7.8	7.8
2/7/92	21	10.00	8.0	7.7	7.7
	21	12.00	8.3	7.9	8.0
	21	17.00	8.1	7.8	7.8
	22				
	23				
	24				
6/7/92	25	10.00	8.2	7.8	7.8
	25	12.00	8.6	8.1	8.1
	25	17.00	8.0	7.8	7.9
	26				
8/7/92	27	10.00	8.1	7.5	7.7
	27	12.00	8.3	7.7	7.8
	27	17.00	8.3	7.8	7.9
	28				
10/7/92	29	10.00	8.0	7.6	7.8
	29	12.00	8.1	7.5	7.5
	29	17.00	7.9	7.6	7.6
	30				
	31				
	32				
14/7/92	33	10.00	7.2	7.5	7.5
	33	12.00	8.2	7.6	7.7
	33	17.00	8.1	7.6	7.7
15/7/92	34	10.00	8.1	7.5	7.7
	34	12.00	8.2	7.7	7.7
	34	17.00	8.0	7.7	7.7
16/7/92	35	10.00	7.9	7.6	7.6
	35	12.00	8.0	7.6	7.7
	35	17.00	7.9	7.7	7.7
17/7/92	36	10.00	7.8	7.3	7.3
	36	12.00	8.2	7.3	7.4
	36	17.00	8.0	7.6	7.5
	37				
	38				
20/7/92	39	10.00	7.9	7.6	7.7
	39	12.00	8.4	7.7	7.8
	39	17.00	8.4	7.8	7.9
21/7/92	40	10.00	7.9	7.6	7.7
	40	12.00	8.3	7.7	7.8
	40	17.00	7.9	7.8	7.9
22/7/92	41	10.00	8.0	7.8	7.7
	41	12.00	8.4	7.8	7.8
	41	17.00	8.1	7.8	7.9

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
23/7/92	42	10.00	7.9	7.7	7.8
	42	12.00	8.5	7.9	7.9
	42	17.00	8.3	7.8	7.9
24/7/92	43	10.00	7.8	7.7	7.9
	43	12.00	8.5	7.9	8.0
	44				
	45				
27/7/92	46	10.00	7.9	7.5	7.6
	46	12.00	8.4	7.8	7.9
	46	17.00	8.3	7.9	8.0
	47				
29/7/92	48	10.00	8.1	7.8	7.6
	48	12.00	8.4	7.9	7.8
	48	17.00	8.1	7.8	7.8
30/7/92	49	10.00	7.9	7.8	7.8
	49	12.00	8.9	8.2	8.2
	49	17.00	8.2	8	8
31/7/92	50	10.00	8	7.8	8.2
	50	12.00	8.2	7.9	7.9
	50	17.00	8	7.9	8
	51				
	52				
3/8/92	53	9.50	8.5	7.7	7.8
	53	11.40	8.7	7.9	8.0
	53	17.10	8.2	7.9	7.9
4/8/92	54	10.30	8.0	7.4	7.7
	54	12.30	8.3	7.5	7.5
	54	16.30	8.1	7.7	7.6
5/8/92	55	10.20	8.1	7.4	7.4
	55	12.30	8.3	7.4	7.6
	55	16.35	8.0	7.6	7.6
6/8/92	56	10.30	8.1	7.2	7.2
	56	12.10	7.9	7.1	7.2
	56	16.45	7.9	7.2	7.2
7/8/92	57	10.30	8.2	7.4	7.3
	57	12.10	8.3	7.5	7.4
	57	16.45	7.8	7.2	7.3
	58				
	59				
10/8/92	60	10.00	8.0	7.2	7.3
	60	11.40	8.4	7.4	7.4
	60	16.55	8.2	7.5	7.4
11/8/92	61	10.00	8.0	7.2	7.3
	61	11.55	8.2	7.4	7.6
	61	16.30	8.0	7.5	7.5

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
12/8/92	62	9.50	8.0	7.4	7.5
	62	11.50	8.1	7.3	7.4
	62	16.30	7.8	7.4	7.3
13/8/92	63	9.40	7.8	7.2	7.2
	63	11.25	8.0	7.1	7.2
	63	16.25	7.9	7.4	7.4
14/8/92	64	9.40	8.4	7.6	7.9
	64	11.05	8.6	7.5	7.6
	64	16.55	8.0	7.4	7.5
15/8/92	65				
16/8/92	66				
17/8/92	67				
18/8/92	68	9.50	8.1	7.2	7.2
	68	11.50	8.3	7.2	7.3
	68	16.40	7.9	7.6	7.5
19/8/92	69	10.30	8.5	7.7	7.6
	69	11.30	8.5	7.5	7.5
	69	16.45	7.9	7.4	7.3
20/8/92	70	10.15	7.8	7.2	7.4
	70	11.20	8.2	7.5	7.5
	70	16.35	7.8	7.5	7.5
21/8/92	71	10.20	8.0	7.3	7.2
	71	11.55	8.1	7.2	7.2
	71	16.35	7.8	7.3	7.2
22/8/92	72				
23/8/92	73				
24/8/92	74	10.00	8.1	7.5	7.3
	74	11.00	8.1	7.6	7.5
	74	17.30	7.9	7.6	7.6
25/8/92	75	10.00	8.0	7.5	7.5
	75	12.50	8.1	7.6	7.5
	75	17.30	8.0	7.6	7.6
26/8/92	76	10.00	8.0	7.4	7.5
	76	12.00	7.3	7.4	7.5
	76	17.30	7.1	7.7	7.7
27/8/92	77	10.00	8.2	7.4	7.3
	77	12.00	8.2	7.4	7.4
	77	17.30	7.8	7.5	7.5
28/8/92	78	10.00	7.9	7.5	7.7
	78	12.00	8.4	7.6	7.7
	78	17.30	8.0	7.4	7.6
29/8/92	79				
30/8/92	80				
31/8/92	81	10.00	8.2	7.5	7.5
	81	12.00	8.2	7.6	7.5
	81	17.30	7.8	7.6	7.5

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
1/9/92	82	10.00	7.8	7.5	7.4
	82	12.00	8.2	7.6	7.6
	82	17.30	7.9	7.6	7.7
2/9/92	83	10.00	7.8	7.5	7.5
	83	12.00	8.1	7.4	7.5
	83	17.30	7.7	7.5	7.6
3/9/92	84	10.00	7.8	7.3	7.4
	84	12.00	8.1	7.5	7.5
	84	17.30	7.9	7.6	7.8
4/9/92	85	10.00	8.0	7.5	7.5
	85	12.00	8.2	7.5	7.5
	85	17.30	7.9	7.6	7.8
07/09/92	88	10.10	8.2	7.6	8
	88	12.07	8.7	7.9	8
	88	16.53	8.1	7.6	7.8
08/09/92	89	9.28	7.8	7.4	7.5
	89	11.57	8.3	7.5	7.6
	89	16.47	7.9	7.5	7.8
09/09/92	90	10.27	8.3	7.5	7.6
	90	12.05	8.2	7.6	7.7
	90	16.52	7.6	7.3	7.5
10/09/92	91	9.25	7.9	7.4	7.5
	91	11.48	8.4	7.6	7.6
	91	16.58	7.9	7.5	7.6
11/09/92	92	9.33	7.5	7.4	7.4
	92	11.48	8.3	7.5	7.5
	92	17.02	8	7.4	7.2
14/09/92	95	9.10	7.9	7.3	7.5
	95	11.32	8.2	7.5	7.7
	95	16.57	7.9	7.7	7.7
15/09/92	96	9.03	7.8	7.4	7.4
	96	11.47	8	7.5	7.5
	96	17.00	7.6	7.5	7.7
16/09/92	97	9.15	7.7	7.3	7.4
	97	11.52	7.9	7.3	7.5
	97	17.00	7.8	7.6	7.7
17/09/92	98	9.08	7.8	7.2	7.3
	98	11.52	8	7.4	7.5
	98	17.05	7.8	7.5	7.6
18/09/92	99	9.45	7.8	7.3	7.2
	99	11.53	8.2	7.6	7.6
	99	17.23	7.8	7.5	7.6
21/09/92	102	10.02	8.1	7.5	7.6
	102	11.52	8.4	7.6	7.7
	102	17.08	8.1	7.8	7.9

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
22/09/92	103	9.33	8	7.7	7.8
	103	11.55	8.5	7.8	7.9
	103	17.00	8.1	7.9	8
23/09/92	104	9.27	8.3	7.8	8.3
	104	11.53	8.7	8.1	8.2
	104	17.17	7.8	7.6	7.6
24/09/92	105	9.52	7.7	7.4	7.6
	105	11.58	8.3	7.6	7.7
	105	17.28	8.1	7.7	7.7
25/09/92	106	9.40	8	7.6	7.6
	106	11.53	8.3	7.6	7.7
	106	17.17	7.9	7.5	7.6
28/09/92	109	10.00	8.3	7.6	7.6
	109	11.48	8.3	7.5	7.6
	109	17.07	7.6	7.3	7.4
29/09/92	110	9.15	7.7	7.4	7.4
	110	11.58	8.1	7.4	7.4
	110	17.00	7.7	7.4	7.6
30/09/92	111	9.55	8	7.3	7.4
	111	12.03	7.9	7.3	7.5
	111	17.05	7.6	7.3	7.4
01/10/92	112	8.57	7.7	7.2	7.2
	112	12.00	7.9	7.3	7.4
	112	16.58	7.6	7.3	7.5
02/10/92	113	9.17	8	7.3	7.5
	113	11.57	8.2	7.4	7.5
	113	17.17	7.7	7.4	7.7
05/10/92	116	9.37	8	7.5	7.8
	116	11.40	8.4	7.7	7.8
	116	16.43	7.8	7.4	7.7
06/10/92	117	9.45	8.2	7.6	7.8
	117	11.15	8.5	7.7	7.8
	117	16.07	8.2	7.6	7.9
07/10/92	118	10.13	8.2	7.6	7.6
	118	11.45	8.3	7.7	7.8
	118	16.40	7.9	7.6	7.9
08/10/92	119	9.33	7.9	8.1	7.6
	119	12.00	8.4	7.6	7.7
	119	16.02	7.8	7.4	7.8
09/10/92	120	9.30	8.1	7.3	7.5
	120	12.00	8	7.4	7.6
	120	16.18	7.7	7.3	7.7
13/10/92	124	9.37	7.8	7.4	7.5
	124	11.32	8.5	7.8	8
	124	15.57	7.9	7.6	7.9

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
14/10/92	125	9.33	7.9	7.4	7.6
	125	12.08	8	7.5	7.7
	125	15.53	7.7	7.5	7.7
15/10/92	126	9.20	7.9	7.4	7.3
	126	12.13	8.2	7.6	7.7
	126	16.13	7.8	7.4	7.6
16/10/92	127	9.12	7.9	7.4	7.5
	127	12.07	8.4	7.6	8
	127	15.47	7.7	7.4	8.2
19/10/92	130	10.10	8.4	7.4	7.7
	130	12.05	8.6	7.8	7.9
	130	16.03	7.9	7.5	8.1
20/10/92	131	9.18	8.1	7.5	7.7
	131	12.05	8.7	7.8	7.9
	131	16.02	7.7	7.5	8
21/10/92	132	10.02	8.1	7.3	7.5
	132	11.55	7.9	7.4	7.6
	132	16.13	7.2	7.4	7.6
22/10/92	133	9.42	8.2	7.5	7.7
	133	11.53	8.3	7.6	8
	133	16.08	7.9	7.7	8.2
23/10/92	134	10.40	8.2	7.5	7.5
	134	12.37	8.2	7.5	7.9
	134	16.32	7.9	7.6	8.1
26/10/92	137	9.33	7.6	7.2	7.5
	137	12.15	7.8	7.3	7.8
	137	16.00	8	7.1	7.8
27/10/92	138	9.48	7.9	7.5	7.9
	138	11.48	8.1	7.7	8.1
	138	16.03	7.8	7.7	8.3
28/10/92	139	10.27	8.2	8.2	7.8
	139	12.17	8.3	7.7	8.1
	139	16.25	7.4	7.5	7.7
29/10/92	140	9.55	7.9	7.5	7.6
	140	12.05	8	7.6	7.6
30/10/92	141	9.17	7.7	7.6	7.9
	141	11.53	8	7.6	8.1
	141	16.10	7.5	7.5	8.1
02/11/92	144	8.53	7.7	7.5	7.6
	144	11.15	8.2	7.5	7.9
03/11/92	145	8.35	7.7	7.4	7.6
	145	11.20	8.2	7.6	7.9
	145	15.35	7.8	7.6	8.2
04/11/92	146	9.35	7.8	7.5	7.6
	146	11.10	8	7.6	7.8

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
05/11/92	147	8.32	7.8	7.4	7.6
	147	11.00	8.2	7.5	7.9
	147	18.05	7.6	7.6	8.4
06/11/92	148	8.32	7.7	7.3	7.6
	148	11.15	8.1	7.4	8.2
	148	15.47	8	7.6	8.3
10/11/92	152	8.37	7.5	7.3	7.6
	152	11.12	8	7.6	8
	152	15.18	7.6	7.5	8.2
11/11/92	153	9.45	8.2	7.5	8.2
	153	11.23	8.4	7.8	8.2
	153	15.23	7.7	7.7	8.4
12/11/92	154	8.40	7.7	7.5	7.9
	154	11.15	8.3	7.6	8.6
13/11/92	155	8.50	7.6	7.3	7.5
	155	11.07	8.2	7.6	7.8
	155	15.48	7.8	7.5	7.6
16/11/92	158	8.42	7.7	7.5	7.5
	158	11.15	8.4	8	8.1
	158	15.08		8.2	8.7
17/11/92	159	7.58	7.9	7.5	7.5
	159	11.05	8.3	7.7	7.9
	159	15.28	8.1	7.9	8.8
18/11/92	160	8.18	7.7	7.5	7
	160	11.18	8.3	7.7	7.7
	160	15.28	8.1	7.9	8.1
19/11/92	161	8.25	7.7	7.4	7.6
	161	11.20	8.3	7.8	8.5
	161	16.05	7.7	7.6	8.5
20/11/92	162	8.18	7.6	7.4	7.4
	162	11.13	8.2	7.6	7.5
	162	15.33	7.6	7.4	7.5
23/11/92	165	12.38	8	7.4	7.4
	165	11.17	8.6	7.9	7.7
	165	15.22	7.8	7.5	7.8
24/11/92	166	8.20	7.7	7.5	7.5
	166	11.17	8.6	7.7	7.6
	166	17.08	7.9	7.7	7.8
25/11/92	167	8.38	7.8	7.4	7.3
	167	10.47	8.2	7.5	7.4
	167	15.00	7.9	7.7	7.7
26/11/92	168	8.42	7.8	7.4	7.3
	168	11.15	8.2	7.5	7.5
	168	15.50	7.5	7.3	7.7

TABLA Nro. 254 - SISTEMA "PTO. MADRYN"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH SAL. LAG. I	pH SAL. LAG. III
27/11/92	169	8.40	7.4	7.3	7.3
	169	11.13	8	7.4	7.2
	169	15.48	7.6	7.4	7.4
30/11/92	172	8.50	7.8	7.5	7.4
	172	11.17	8.1	7.4	7.6
	172	15.13	7.7	7.5	7.4
01/12/92	173	8.47	7.7	7.5	7.5
	173	11.13	7.9	7.4	7.4
	173	15.30	7.4	7.3	7.4
02/12/92	174	8.35	7.2	7.2	7.1
	174	11.22	7.7	7.1	7.3
	174	15.50	7.2	6.9	7.5
03/12/92	175	8.35	7.3	7	7.1
	175	11.17	7.6	7.1	7.1
	175	15.22	7.2	7	7.3
04/12/92	176	8.30	7.2	7	7.1
	176	11.18	8	7.2	7.3
	176	16.35	7.1	7	7.3
07/12/92	179	8.18	7.2	7.1	7.1
	179	11.02	7.7	7.1	7.2
	179	15.28	7.4	7	7.3
09/12/92	181	9.02	7.8	7.2	7.4
	181	11.17	7.8	7.1	7.7
	181	15.28	7.2	7.1	7.6
10/12/92	182	8.28	7.2	7.3	6.8
	182	10.52	7.8	7.2	7.5
	182	15.57	6.8	7.1	7.2
11/12/92	183	8.20	7.1	7	6.9
	183	11.12	7.6	7.1	7.2
	183	15.20	7.1	7.2	7.4

TABLA Nro. 255 - SISTEMA "PTO. MADRYN"
pH MEDIO DIARIO

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH SAL. LAG. I MEDIO	pH SAL. LAG. III MEDIO
12/6/92	1	7.8	7.5	7.5
15/6/92	4	7.5	7.3	7.3
16/6/92	5	7.8	7.4	7.4
17/6/92	6	7.8	7.3	7.3
18/6/92	7	7.8	7.4	7.5
19/6/92	8	7.9	7.5	7.5
22/6/92	11	7.9	7.6	7.8
23/6/92	12	8.0	7.7	7.7
24/6/92	13	8.0	7.8	7.8
25/6/92	14	8.0	7.7	7.7
26/6/92	15	8.0	7.6	7.7
29/6/92	18	8.1	7.7	7.8
30/6/92	19	8.0	7.7	7.6
1/7/92	20	8.1	7.7	7.8
2/7/92	21	8.1	7.8	7.8
6/7/92	25	8.3	7.9	7.9
8/7/92	27	8.2	7.7	7.8
10/7/92	29	8.0	7.6	7.6
14/7/92	33	7.8	7.6	7.6
15/7/92	34	8.1	7.6	7.7
16/7/92	35	7.9	7.6	7.7
17/7/92	36	8.0	7.4	7.4
20/7/92	39	8.2	7.7	7.8
21/7/92	40	8.0	7.7	7.8
22/7/92	41	8.2	7.8	7.8
23/7/92	42	8.2	7.8	7.9
24/7/92	43	8.2	7.8	8.0
27/7/92	46	8.2	7.7	7.8
29/7/92	48	8.2	7.8	7.7
30/7/92	49	8.3	8.0	8.0
31/7/92	50	8.1	7.9	8.0
3/8/92	53	8.5	7.8	7.9
4/8/92	54	8.1	7.5	7.6
5/8/92	55	8.1	7.5	7.5
6/8/92	56	8.0	7.2	7.2
7/8/92	57	8.1	7.4	7.3
10/8/92	60	8.2	7.4	7.4
11/8/92	61	8.1	7.4	7.5
12/8/92	62	8.0	7.4	7.4
13/8/92	63	7.9	7.2	7.3
14/8/92	64	8.3	7.5	7.7
18/8/92	68	8.1	7.3	7.3

TABLA Nro. 255 - SISTEMA "PTO. MADRYN"
pH MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH SAL. LAG. I MEDIO	pH SAL. LAG. III MEDIO
19/8/92	69	8.3	7.5	7.5
20/8/92	70	7.9	7.4	7.5
21/8/92	71	8.0	7.3	7.2
24/8/92	74	8.0	7.6	7.5
25/8/92	75	8.0	7.6	7.5
26/8/92	76	7.5	7.5	7.6
27/8/92	77	8.1	7.4	7.4
28/8/92	78	8.1	7.5	7.7
31/8/92	81	8.1	7.6	7.5
1/9/92	82	8.0	7.6	7.6
2/9/92	83	7.9	7.5	7.5
3/9/92	84	7.9	7.5	7.6
4/9/92	85	8.0	7.5	7.6
07/09/92	88	8.3	7.7	7.9
08/09/92	89	8.0	7.5	7.6
09/09/92	90	8.0	7.5	7.6
10/09/92	91	8.1	7.5	7.6
11/09/92	92	7.9	7.4	7.4
14/09/92	95	8.0	7.5	7.6
15/09/92	96	7.8	7.5	7.5
16/09/92	97	7.8	7.4	7.5
17/09/92	98	7.9	7.4	7.5
18/09/92	99	7.9	7.5	7.5
21/09/92	102	8.2	7.6	7.7
22/09/92	103	8.2	7.8	7.9
23/09/92	104	8.3	7.8	8.0
24/09/92	105	8.0	7.6	7.7
25/09/92	106	8.1	7.6	7.6
28/09/92	109	8.1	7.5	7.5
29/09/92	110	7.8	7.4	7.5
30/09/92	111	7.8	7.3	7.4
01/10/92	112	7.7	7.3	7.4
02/10/92	113	8.0	7.4	7.6
05/10/92	116	8.1	7.5	7.8
06/10/92	117	8.3	7.6	7.8
07/10/92	118	8.1	7.6	7.8
08/10/92	119	8.0	7.7	7.7
09/10/92	120	7.9	7.3	7.6
13/10/92	124	8.1	7.6	7.8
14/10/92	125	7.9	7.5	7.7
15/10/92	126	8.0	7.5	7.5
16/10/92	127	8.0	7.5	7.9

TABLA Nro. 255 - SISTEMA "PTO. MADRYN"
pH MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH SAL. LAG. I MEDIO	pH SAL. LAG. III MEDIO
19/10/92	130	8.3	7.6	7.9
20/10/92	131	8.2	7.6	7.9
21/10/92	132	7.7	7.4	7.6
22/10/92	133	8.1	7.6	8.0
23/10/92	134	8.1	7.5	7.8
26/10/92	137	7.8	7.2	7.7
27/10/92	138	7.9	7.6	8.1
28/10/92	139	8.0	7.8	7.9
29/10/92	140	8.0	7.6	7.6
30/10/92	141	7.7	7.6	8.0
02/11/92	144	8.0	7.5	7.8
03/11/92	145	7.9	7.5	7.9
04/11/92	146	7.9	7.6	7.7
05/11/92	147	7.9	7.5	8.0
06/11/92	148	7.9	7.4	8.0
10/11/92	152	7.7	7.5	7.9
11/11/92	153	8.1	7.7	8.3
12/11/92	154	8.0	7.6	8.3
13/11/92	155	7.9	7.5	7.6
16/11/92	158	8.1	7.9	8.1
17/11/92	159	8.1	7.7	8.1
18/11/92	160	8.0	7.7	7.6
19/11/92	161	7.9	7.6	8.2
20/11/92	162	7.8	7.5	7.5
23/11/92	165	8.1	7.6	7.6
24/11/92	166	8.1	7.6	7.6
25/11/92	167	8.0	7.5	7.5
26/11/92	168	7.8	7.4	7.5
27/11/92	169	7.7	7.4	7.3
30/11/92	172	7.9	7.5	7.5
01/12/92	173	7.7	7.4	7.4
02/12/92	174	7.4	7.1	7.3
03/12/92	175	7.4	7.0	7.2
04/12/92	176	7.4	7.1	7.2
07/12/92	179	7.4	7.1	7.2
09/12/92	181	7.6	7.1	7.6
10/12/92	182	7.3	7.2	7.2
11/12/92	183	7.3	7.1	7.2

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
12/6/92	1	9.00	6.2	5.1
	1	11.00	6.6	5.7
	1	15.00	7.7	7.0
	2			
	3			
15/6/92	4	10.00	6.5	6.5
	4	12.00	7.9	7.1
	4	16.30	8.7	9.0
16/6/92	5	9.30	6.7	5.4
	5	11.30	6.2	6.3
	5	16.30	6.5	6.2
17/6/92	6	9.00	4.5	3.0
	6	11.30	5.5	4.0
	6	16.00	4.8	3.5
18/6/92	7	9.00	6.2	4.3
	7	12.00	6.0	5.7
	7	17.00	6.5	5.8
19/6/92	8	10.00	6.2	6.4
	8	12.00	7.2	5.8
	8	17.00	6.3	6.3
	9			
	10			
22/6/92	11	10.00	6.3	7.0
	11	12.00	6.6	6.4
	11	17.00	6.9	6.7
23/6/92	12	10.00	6.2	5.8
	12	12.00	6.5	5.5
	12	17.00	6.8	5.9
24/6/92	13	10.00	6.5	6.0
	13	12.00	6.4	6.2
	13	17.00	7.5	6.2
25/6/92	14	10.00	6.2	5.8
	14	12.00	6.5	6.1
	14	17.00	6.7	6.1
26/6/92	15	10.00	5.8	5.0
	15	12.00	6.3	5.7
	15	17.00	6.1	6.0
	16			
	17			
29/6/92	18	10.00	5.8	6.2
	18	12.00	6.5	5.8
	18	17.00	6.9	5.6

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
30/6/92	19	10.00	5.8	5.6
	19	12.00	6.2	5.5
	19	17.00	6.8	6.2
1/7/92	20	10.00	5.7	7.1
	20	12.00	6.6	5.9
	20	17.00	7.5	6.7
2/7/92	21	10.00	6.7	6.0
	21	12.00	7.0	6.1
	21	17.00	7.5	7.3
	22			
	23			
	24			
6/7/92	25	10.00	6.7	7.1
	25	12.00	7.2	6.8
	25	17.00	6.8	7.2
	26			
8/7/92	27	10.00	6.6	7.9
	27	12.00	7.8	7.2
	27	17.00	7.9	7.4
	28			
10/7/92	29	10.00	8.5	5.0
	29	12.00	4.8	4.5
	29	17.00	4.8	3.8
	30			
	31			
	32			
14/7/92	33	10.00	5.1	3.9
	33	12.00	5.4	5.3
	33	17.00	5.5	5.3
15/7/92	34	10.00	5.8	4.1
	34	12.00	4.8	4.0
	34	17.00	5.0	3.8
16/7/92	35	10.00	5.0	4.3
	35	12.00	4.8	4.8
	35	17.00	4.8	3.8
17/7/92	36	10.00	2.0	1.4
	36	12.00	3.3	1.2
	36	17.00	3.9	1.4
	37			
	38			
20/7/92	39	10.00	4.7	4.9
	39	12.00	4.9	4.5
	39	17.00	5.0	4.2

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
21/7/92	40	10.00	4.7	5.0
	40	12.00	5.1	5.7
	40	17.00	4.9	5.9
22/7/92	41	10.00	4.7	4.8
	41	12.00	4.9	4.7
	41	17.00	5.0	5.5
23/7/92	42	10.00	4.3	4.9
	42	12.00	4.9	4.6
	42	17.00	4.5	5.1
24/7/92	43	10.00	4.9	5.7
	43	12.00	5.3	5.8
	44			
	45			
27/7/92	46	10.00	4.8	4.3
	46	12.00	5.2	4.6
	46	17.00	5.3	4.8
	47			
29/7/92	48	10.00	5.4	5.6
	48	12.00	5.9	6.0
	48	17.00	6.0	5.4
30/7/92	49	10.00	5.6	5.3
	49	12.00	6.8	5.6
	49	17.00	7.0	5.8
31/7/92	50	10.00	4.8	8.5
	50	12.00	5.9	4.9
	50	17.00	4.8	5.4
	51			
	52			
3/8/92	53	9.50	4.3	5.4
	53	11.40	4.9	4.8
	53	17.10	4.2	4.8
4/8/92	54	10.30	3.0	4.0
	54	12.30	3.7	3.1
	54	16.50	4.8	4.1
5/8/92	55	10.20	3.5	4.3
	55	12.30	3.0	3.9
	55	16.35	2.2	2.5
6/8/92	56	10.30	2.5	1.5
	56	12.10	2.2	2.1
	56	16.45	3.3	2.1

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
7/8/92	57	10.30	2.8	2.6
	57	12.10	2.9	2.2
	57	16.45	1.8	1.3
	58			
	59			
10/8/92	60	10.00	1.9	1.5
	60	11.40	2.2	1.3
	60	16.55	2.7	1.2
11/8/92	61	10.00	2.6	2.4
	61	11.55	2.4	2.2
	61	16.30	2.6	2.0
12/8/92	62	9.50	2.9	3.7
	62	11.50	2.8	3.2
	62	16.30	2.3	3.3
13/8/92	63	9.40	3.0	3.7
	63	11.25	3.1	3.8
	63	16.25	4.4	3.6
14/8/92	64	9.40	3.2	4.4
	64	11.05	3.0	3.8
	64	16.55	2.9	3.8
	65			
	66			
	67			
18/8/92	68	9.50	2.0	3.1
	68	11.50	2.3	2.3
	68	16.40	2.0	2.0
19/8/92	69	10.30	1.5	2.0
	69	11.30	1.7	1.5
	69	16.45	1.9	1.5
20/8/92	70	10.15	0.7	1.3
	70	11.20	0.4	1.1
	70	16.35	0.8	0.9
21/8/92	71	10.20	1.4	1.0
	71	11.55	1.0	0.7
	71	16.35	1.4	0.4
22/8/92	72			
23/8/92	73			
24/8/92	74	9.45	4.3	2.0
	74	11.30	4.5	2.1
	74	16.35	3.5	1.4
25/8/92	75	10.00	2.2	1.7
	75	12.10	3.3	0.7
	75	16.30	1.9	2.2

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
26/8/92	76	10.30	2.4	3.2
	76	11.45	1.6	2.4
	76	16.55	2.5	1.5
27/8/92	77	9.35	3.9	1.9
	77	10.55	3.0	1.6
	77	16.45	3.0	2.5
28/8/92	78	9.40	4.4	4.3
	78	10.40	4.5	4.7
	78	17.00	4.4	3.9
29/8/92	79			
30/8/92	80			
31/8/92	81	11.00	4.8	3.1
	81	12.10	4.3	3.1
	81	16.25	5.0	4.0
1/9/92	82	8.55	5.2	3.9
	82	11.00	5.3	4.4
	82	16.40	4.7	4.9
2/9/92	83	9.10	4.4	5.0
	83	10.40	4.6	4.8
	83	16.30	4.4	4.6
3/9/92	84	8.40	3.2	3.8
	84	10.10	4.5	3.9
	84	16.20	3.3	3.8
4/9/92	85	9.10	4.0	4.7
	85	10.40	4.6	3.8
	85	16.45	4.7	4.7
07/09/92	88	10.28	4.2	5.7
	88	12.13	3.8	4.7
	88	17.00	4.7	4.1
08/09/92	89	9.43	3.3	4.1
	89	12.13	2.4	4.1
	89	16.55	2.4	3.8
09/09/92	90	10.33	3.6	3.8
	90	12.12	3.8	4.3
	90	17.00	3.3	4.2
10/09/92	91	9.33	3.7	4.1
	91	11.55	4.0	4.5
	91	17.08	2.3	3.2
11/09/92	92	9.40	3.4	2.5
	92	11.55	4.0	3.8
	92	17.10	3.4	3.4

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
14/09/92	95	9.20	3.1	3.8
	95	11.38	3.7	4.5
	95	17.08	3.3	3.7
15/09/92	96	9.13	4.6	5.1
	96	11.53	5.6	4.9
	96	17.10	4.7	4.8
16/09/92	97	9.30	3.7	4.2
	97	11.58	3.5	3.8
	97	17.10	4.0	4.3
17/09/92	98	9.20	2.6	1.7
	98	11.58	3.3	3.0
	98	17.13	2.6	3.4
18/09/92	99	9.55	2.5	3.8
	99	12.00	3.7	4.2
	99	17.33	4.2	5.0
21/09/92	102	10.10	2.5	2.7
	102	11.58	3.8	4.0
	102	17.23	3.8	4.8
22/09/92	103	9.45	3.5	3.1
	103	12.03	4.1	4.1
	103	17.08	3.5	4.2
23/09/92	104	9.35	4.2	3.4
	104	12.00	4.5	4.4
	104	17.23	4.4	4.5
24/09/92	105	10.05	3.5	1.6
	105	12.05	3.7	3.8
	105	17.35	3.3	3.4
25/09/92	106	9.48	3.4	1.9
	106	12.00	3.8	3.2
	106	17.25	3.5	3.1
28/09/92	109	10.08	3.4	1.8
	109	11.55	3.6	3.1
	109	17.15	3.1	3.1
29/09/92	110	9.28	3.4	3.6
	110	12.05	3.2	3.0
	110	17.08	2.2	4.3
30/09/92	111	10.03	2.5	3.6
	111	12.10	2.8	4.0
	111	17.13	2.2	3.8
01/10/92	112	9.05	1.7	1.1
	112	12.05	2.5	2.3
	112	17.05	3.2	4.1

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
02/10/92	113	9.25	2.5	2.7
	113	12.05	3.6	4.1
	113	17.23	3.4	5.5
05/10/92	116	9.48	3.1	3.2
	116	11.45	3.7	3.9
	116	16.50	3.5	4.9
06/10/92	117	9.55	4.2	4.0
	117	11.23	4.3	4.9
	117	16.18	4.4	6.1
07/10/92	118	10.25	3.9	4.6
	118	11.53	4.2	5.2
	118	16.48	3.6	5.6
08/10/92	119	9.50	0.6	3.1
	119	12.08	3.1	4.4
	119	16.10	3.6	5.3
09/10/92	120	9.38	3.1	4.0
	120	12.08	3.4	5.5
	120	16.28	3.6	6.3
13/10/92	124	9.50	3.7	3.8
	124	11.40	4.4	4.4
	124	16.03	4.1	6.3
14/10/92	125	9.40	3.4	4.1
	125	12.15	3.3	4.0
	125	16.00	2.9	5.8
15/10/92	126	9.28	2.1	0.7
	126	12.20	3.2	4.3
	126	16.23	1.5	4.0
16/10/92	127	9.20	0.7	2.3
	127	12.15	2.6	4.5
	127	15.55	1.6	6.9
19/10/92	130	10.20	2.8	3.3
	130	12.15	3.4	4.9
	130	16.10	2.3	5.8
20/10/92	131	9.33	2.6	3.2
	131	12.13	3.0	3.5
	131	16.10	2.8	6.3
21/10/92	132	10.13	1.5	2.0
	132	12.03	1.2	3.5
	132	16.23	1.1	4.1
22/10/92	133	9.53	2.0	2.2
	133	12.03	1.3	4.1
	133	16.20	1.9	5.9

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
23/10/92	134	10.48	3.0	1.1
	134	12.48	2.3	5.2
	134	16.40	2.3	4.7
26/10/92	137	9.48	1	4.2
	137	12.28	1.8	5.1
	137	16.08	2.2	6
27/10/92	138	9.58	3.9	6.2
	138	12.00	4.4	7.6
	138	16.13	4.4	11.4
28/10/92	139	10.33	0.3	5.7
	139	12.25	4.9	6.6
	139	16.33	4	7.5
29/10/92	140	10.05	4.3	6.3
	140	12.15	4.7	7.7
30/10/92	141	9.25	3.9	5.4
	141	12.03	4.9	8.5
	- 141	16.15	3.7	8.7
02/11/92	144	9.13	2.8	4.6
	144	11.25	4.9	7.6
03/11/92	145	8.43	3.7	6.6
	145	11.28	4.4	7.4
	145	15.45	4.4	10.3
04/11/92	146	9.43	4	4.4
	146	11.18	4.4	7.4
05/11/92	147	8.40	3.7	4.7
	147	11.08	3.2	10.5
	147	18.10	4.2	10.9
06/11/92	148	8.43	2.7	5.4
	148	11.25	3.1	10
	148	15.58	2.7	13.5
10/11/92	152	8.45	2.5	5.8
	152	11.23	6.3	9.2
	152	15.28	5.4	10.8
11/11/92	153	9.55	3.6	8.1
	153	11.30	5.7	10.1
	153	15.33	4.8	11.4
12/11/92	154	8.50	1.9	5.7
	154	11.25	4.1	11.9
13/11/92	155	9.05	0.9	0.9
	155	11.15	2.7	3.1
	155	15.58	1.6	3.5

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
16/11/92	158	8.50	3.2	3.4
	158	11.23	7.2	7.8
	158	15.13	6.1	9.8
17/11/92	159	8.05	2.3	2.5
	159	11.13	5.5	8.1
	159	15.43	7	12.8
18/11/92	160	8.28	4	3.2
	160	11.28	5	2.9
	160	15.40	5.4	9.9
19/11/92	161	8.33	1.9	3.8
	161	11.28	4.3	13.1
	161	16.30	0.1	15.8
20/11/92	162	8.28	0.6	0.2
	162	11.20	1.9	0.8
	162	15.43	1.3	1.4
23/11/92	165	14.25	1.5	1.3
	165	11.25	3.7	3.5
	165	15.30	0.3	3.9
24/11/92	166	8.30	1.1	0.3
	166	11.25	2.8	1
	166	17.18	1.5	2.4
25/11/92	167	8.48	1.8	0.1
	167	10.55	2.8	1.9
	167	15.10	2.7	3
26/11/92	168	8.50	1.5	1
	168	11.23	3.3	4.1
	168	16.00	1.3	3
27/11/92	169	8.48	0.5	0.3
	169	11.20	1.1	1
	169	15.58	0.1	0.2
30/11/92	172	8.58	1.4	0.4
	172	11.25	1.2	0.1
	172	15.20	0.7	0.8
01/12/92	173	8.55	2.5	0.7
	173	11.23	1.8	2.3
	173	15.40	0.1	3
02/12/92	174	8.45	1.2	2.7
	174	11.30	0.6	4.9
	174	16.00	0.2	5.2
03/12/92	175	8.43	0.5	1.2
	175	11.25	0.3	2.4
	175	15.33	0	4.1

TABLA Nro. 256 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. SAL. LAG. I mg/l	O.D. SAL. LAG. III mg/l
04/12/92	176	8.43	0.2	2.1
	176	11.28	0	4
	176	16.45	0	2.8
07/12/92	179	8.25	2	2
	179	11.08	1.8	3
	179	15.40	1.4	2.8
09/12/92	181	9.10	3.4	4.5
	181	11.25	3.4	7.2
	181	15.43	4.2	4.8
10/12/92	182	8.48	5.2	2.8
	182	10.50	2.2	6.1
	182	16.20	0	4.1
11/12/92	183	8.30	0.2	0.2
	183	11.18	0.9	1.5
	183	15.28	0.2	3.4

TABLA Nro. 257 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO MEDIO DIARIO

FECHA	DIA OPERATIVO	O.D. SAL. LAG. I MEDIO	O.D. SAL. LAG. III MEDIO
12/6/92	1	6.8	5.9
15/6/92	4	7.7	7.5
16/6/92	5	6.5	6.0
17/6/92	6	4.9	3.5
18/6/92	7	6.2	5.3
19/6/92	8	6.6	6.2
22/6/92	11	6.6	6.7
23/6/92	12	6.5	5.7
24/6/92	13	6.8	6.1
25/6/92	14	6.5	6.0
26/6/92	15	6.1	5.6
29/6/92	18	6.4	5.9
30/6/92	19	6.3	5.8
1/7/92	20	6.6	6.6
2/7/92	21	7.1	6.5
6/7/92	25	6.9	7.0
8/7/92	27	7.4	7.5
10/7/92	29	6.0	4.4
14/7/92	33	5.3	4.8
15/7/92	34	5.2	4.0
16/7/92	35	4.9	4.3
17/7/92	36	3.1	1.3
20/7/92	39	4.9	4.5
21/7/92	40	4.9	5.5
22/7/92	41	4.9	5.0
23/7/92	42	4.6	4.9
24/7/92	43	5.1	5.8
27/7/92	46	5.1	4.6
29/7/92	48	5.8	5.7
30/7/92	49	6.5	5.6
31/7/92	50	5.2	6.3
3/8/92	53	4.5	5.0
4/8/92	54	3.8	3.7
5/8/92	55	2.9	3.6
6/8/92	56	2.7	1.9
7/8/92	57	2.3	2.0
10/8/92	60	2.3	1.3
11/8/92	61	2.5	2.2
12/8/92	62	2.7	3.4
13/8/92	63	3.5	3.7
14/8/92	64	3.0	4.0
18/8/92	68	2.1	2.5

TABLA Nro. 257 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	O.D. SAL. LAG. I MEDIO	O.D. SAL. LAG. III MEDIO
19/8/92	69	1.7	1.7
20/8/92	70	0.6	1.1
21/8/92	71	1.3	0.7
24/8/92	74	4.1	1.8
25/8/92	75	2.5	1.5
26/8/92	76	2.2	2.4
27/8/92	77	3.3	2.0
28/8/92	78	4.4	4.3
31/8/92	81	4.7	3.4
1/9/92	82	5.1	4.4
2/9/92	83	4.5	4.8
3/9/92	84	3.7	3.8
4/9/92	85	4.4	4.4
07/09/92	88	4.2	4.8
08/09/92	89	2.7	4.0
09/09/92	90	3.6	4.1
10/09/92	91	3.3	3.9
11/09/92	92	3.6	3.2
14/09/92	95	3.4	4.0
15/09/92	96	5.0	4.9
16/09/92	97	3.7	4.1
17/09/92	98	2.8	2.7
18/09/92	99	3.5	4.3
21/09/92	102	3.4	3.8
22/09/92	103	3.7	3.8
23/09/92	104	4.4	4.1
24/09/92	105	3.5	2.9
25/09/92	106	3.6	2.7
28/09/92	109	3.4	2.7
29/09/92	110	2.9	3.6
30/09/92	111	2.5	3.8
01/10/92	112	2.5	2.5
02/10/92	113	3.2	4.1
05/10/92	116	3.4	4.0
06/10/92	117	4.3	5.0
07/10/92	118	3.9	5.1
08/10/92	119	2.4	4.3
09/10/92	120	3.4	5.3
13/10/92	124	4.1	4.8
14/10/92	125	3.2	4.6
15/10/92	126	2.3	3.0
16/10/92	127	1.6	4.6
19/10/92	130	2.8	4.7

TABLA Nro. 257 - SISTEMA "PTO. MADRYN"
OXIGENO DISUELTO MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	O.D. SAL. LAG. I MEDIO	O.D. SAL. LAG. III MEDIO
20/10/92	131	2.8	4.3
21/10/92	132	1.3	3.2
22/10/92	133	1.7	4.1
23/10/92	134	2.5	3.7
26/10/92	137	1.7	5.1
27/10/92	138	4.2	8.4
28/10/92	139	3.1	6.6
29/10/92	140	4.5	7.0
30/10/92	141	4.2	7.5
02/11/92	144	3.9	6.1
03/11/92	145	4.2	8.1
04/11/92	146	4.2	5.9
05/11/92	147	3.7	8.7
06/11/92	148	2.8	9.6
10/11/92	152	4.7	8.6
11/11/92	153	4.7	9.9
12/11/92	154	3.0	8.8
13/11/92	155	1.7	2.5
16/11/92	158	5.5	7.0
17/11/92	159	4.9	7.8
18/11/92	160	4.8	5.3
19/11/92	161	2.1	10.9
20/11/92	162	1.3	0.8
23/11/92	165	1.8	2.9
24/11/92	166	1.8	1.2
25/11/92	167	2.4	1.7
26/11/92	168	2.0	2.7
27/11/92	169	0.6	0.5
30/11/92	172	1.1	0.4
01/12/92	173	1.5	2.0
02/12/92	174	0.7	4.3
03/12/92	175	0.3	2.6
04/12/92	176	0.1	3.0
07/12/92	179	1.7	2.6
09/12/92	181	3.7	5.5
10/12/92	182	2.5	4.3
11/12/92	183	0.4	1.7

SISTEMA PUERTO MADRYN

TABLA N° 258 - DBO5 TOTAL

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
24/8/92	283	153	180
7/9/92	183	88	93
7/10/92	174	93	84
13/10/92	112	84	73
18/10/92	155	112	99
24/10/92	176		
27/10/92	184	114	74
4/11/92	114	88	
12/11/92	94	45	36
19/11/92	150	132	118
25/11/92	139	129	128
15/12/92	136	93	68

TABLA N° 259 - DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
24/8/92	180	89	93
7/9/92	130	57	63
7/10/92	102	76	73
13/10/92	88	69	69
18/10/92	116	99	97
4/11/92	66	51	30
12/11/92	48	36	26
19/11/92	98		
25/11/92	112	97	99

SISTEMA PUERTO MADRYN

TABLA N° 260 - DQO

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
24/8/92	324	212	230
7/9/92	273	145	130
7/10/92	214	148	135
13/10/92	162	132	97
18/10/92	205	131	112
24/10/92	223	164	109
27/10/92	236		
4/11/92	177	118	89
12/11/92	150	87	80
19/11/92	214	193	128
25/11/92	212	177	175

TABLA N° 261 - OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
3/8/92	45.8	29.7	26.1
4/8/92	50.8	29.0	24.6
6/8/92	48.5	30.3	25.0
7/8/92	44.8	30.8	26.2
10/8/92	42.7	30.1	27.1
11/8/92	41.1	27.1	26.3
12/8/92	47.5	30.2	28.8
13/8/92	35.7	29.8	27.9
14/8/92	45.6	30.6	28.6
18/8/92	43.0	27.5	25.0
19/8/92	49.0	30.3	25.9
20/8/92	52.2	30.8	27.0
24/8/92	64.3	51.7	48.2
25/8/92	70.4	48.6	49.0
26/8/92	68.0	50.8	48.6
27/8/92	63.9	50.1	47.2
28/8/92	63.1	49.7	26.2
31/8/92	53.6	23.4	21.0

NOTA: Determinaciones sobre muestras puntuales.

SISTEMA PUERTO MADRYN

TABLA Nº 261 - OXIGENO CONSUMIDO (Continuación)

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
1/9/92	34.1	27.1	23.3
2/9/92	35.3	24.9	24.0
3/9/92	37.5	26.0	23.6
4/9/92	40.2	23.8	20.6
7/9/92	44.7	24.7	21.8
8/9/92	35.0	24.5	21.5
9/9/92	45.1	26.6	23.0
10/9/92	43.0	26.6	23.2
11/9/92	33.7	25.2	23.3
14/9/92	38.9	26.8	22.5
15/9/92	38.4	28.0	22.5
16/9/92	34.7	26.8	23.3
17/9/92	34.2	27.3	23.8
18/9/92	42.2	25.4	22.4
21/9/92	33.3	27.8	23.8
22/9/92	39.0	28.4	22.3
23/9/92	36.3	27.9	24.1
24/9/92	42.9	28.0	23.3
25/9/92	43.2	26.2	23.0
28/9/92	42.8	25.5	21.8
29/9/92	45.5	24.9	21.9
30/9/92	53.8	31.8	25.8
1/10/92	41.7	26.2	21.0
2/10/92	45.1	29.7	25.2
5/10/92	47.0	32.2	28.0
6/10/92	44.3	28.9	25.2
7/10/92	53.2	30.2	26.2
8/10/92	47.6	29.8	26.0
9/10/92	45.6	27.4	22.0
13/10/92	46.8	27.3	22.6
14/10/92	55.4	26.4	23.7
15/10/92	44.1	26.4	23.0
16/10/92	39.5	26.7	25.1
19/10/92	32.6	31.6	29.3
20/10/92	38.5	32.3	27.0
21/10/92	43.4	29.8	27.5
22/10/92	39.9	30.7	25.9
23/10/92	74.3	27.2	34.3

NOTA: Determinaciones sobre muestras puntuales.

SISTEMA PUERTO MADRYN

TABLA N° 261 - OXIGENO CONSUMIDO (Continuación)

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
26/10/92	35.6	25.6	23.9
28/10/92	34.6	28.3	26.1
29/10/92	40.5	29.0	29.0
30/10/92	36.8	27.2	26.8
02/11/92	32.3	27.8	24.5
04/11/92	29.4	26.0	23.1
05/11/92	32.3	26.0	26.8
06/11/92	35.6	27.0	22.5
10/11/92	28.3	25.7	22.1
12/11/92	32.1	24.7	22.7
13/11/92	29.2	27.1	26.6
17/11/92	52.3	33.0	32.6
18/11/92	34.0	31.6	29.3
19/11/92	33.0	29.7	30.3
20/11/92	30.1	31.4	34.2
23/11/92	32.2	34.0	34.8
24/11/92	33.4	32.4	31.9
25/11/92	33.6	30.4	32.4
26/11/92	35.4	32.5	32.0
27/11/92	36.1	31.3	34.3
30/11/92	29.6	34.9	38.2
01/12/92	38.4	34.6	33.0
02/12/92	31.0	34.6	32.9
03/12/92	31.0	33.8	32.2
04/12/92	34.7	35.0	33.2
07/12/92	31.1	37.4	38.5
09/12/92	39.5	41.9	39.0

NOTA: Determinaciones sobre muestras puntuales.

SISTEMA PUERTO MADRYN

TABLA N° 262 - SOLIDOS SEDIMENTABLES

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	SALIDA LAG.I	SALIDA LAG.III	CRUDO	SALIDA LAG.I	SALIDA LAG.III
7/9/92	3.0	0.1	0.1	4.0	0.1	0.1
8/9/92	2.0	0.1	0.1	2.5	0.1	0.1
9/9/92	3.0	0.1	0.1	4.5	0.1	0.1
10/9/92	4.5	0.1	0.1	5.5	0.5	0.1
11/9/92	2.0	0.1	0.1	2.5	0.1	0.1
14/9/92	4.0	0.1	0.1	3.0	0.1	0.1
15/9/92	3.0	0.1	0.1	4.5	0.1	0.1
16/9/92	2.5	0.1	0.1	4.0	0.1	0.1
17/9/92	3.0	0.1	0.1	3.5	0.1	0.1
18/9/92	4.0	0.1	0.1	5.5	0.1	0.1
21/9/92	2.5	0.5	0.1	5.0	0.9	0.1
22/9/92	1.5	0.1	0.1	2.5	0.1	0.1
23/9/92	4.0	0.1	0.1	5.0	0.1	0.1
24/9/92	3.0	0.1	0.1	4.0	0.1	0.1
25/9/92	3.0	0.1	0.1	3.5	0.1	0.1
28/9/92	3.0	0.1	0.1	5.0	0.1	0.1
29/9/92	2.0	0.1	0.1	3.0	0.1	0.1
30/9/92	5.0	0.1	0.1	6.0	0.1	0.1

NOTA: ND = no detectado
(límite detección: 0.1 ml/l)

SISTEMA PUERTO MADRYN

TABLA N° 262 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	SALIDA LAG.I	SALIDA LAG.III	CRUDO	SALIDA LAG.I	SALIDA LAG.III
1/10/92	4.0	0.1	0.1	5.0	0.1	0.1
2/10/92	3.5	0.1	0.1	5.0	0.1	0.1
5/10/92	2.0	0.1	0.2	4.0	0.1	0.2
6/10/92	3.0	0.1	0.1	3.5	0.1	0.1
7/10/92	7.0	0.1	0.1	8.0	0.1	0.1
8/10/92	2.0	0.1	0.1	3.0	0.1	0.1
9/10/92	2.5	0.1	0.1	3.0	0.1	0.1
13/10/92	6.0	0.1	0.2	6.5	0.2	0.2
14/10/92	3.0	0.1	0.1	4.5	0.1	0.1
15/10/92	5.0	0.1	0.1	5.5	0.1	0.1
16/10/92	2.0	0.1	0.1	3.0	0.1	0.1
19/10/92	5.5	0.1	0.1	6.0	0.1	0.1
20/10/92	3.0	0.1	0.1	4.0	0.1	0.1
21/10/92	5.0	0.1	0.1	6.0	0.1	0.1
22/10/92	4.0	0.1	0.1	4.0	0.1	0.1
23/10/92	7.5	0.1	0.1	9.5	0.1	0.1

NOTA: ND = no detectado
(límite detección: 0.1 ml/l)

SISTEMA PUERTO MADRYN

TABLA N° 262 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	SALIDA LAG.I	SALIDA LAG.III	CRUDO	SALIDA LAG.I	SALIDA LAG.III
27/10/92	3.0	0.1	0.1	4.0	0.1	0.1
28/10/92	6.0	0.1	0.1	7.0	0.1	0.1
29/10/92	4.0	0.5	0.1	5.0	0.5	0.1
30/10/92	4.0	0.1	0.1	4.5	0.1	0.1
2/11/92	2.0	0.1	0.1	2.5	0.1	0.1
3/11/92	1.5	0.1	0.1	2.0	0.5	0.1
4/11/92	4.0	0.2	0.1	5.0	0.2	0.1
5/11/92	2.0	0.1	0.1	3.5	0.1	0.1
6/11/92	2.5	0.1	0.1	3.0	0.1	0.1
10/11/92	2.0	0.1	0.1	2.5	0.1	0.1
11/11/92	4.5	0.1	0.1	6.0	0.1	0.1
12/11/92	2.0	0.1	0.1	2.5	0.1	0.1
13/11/92	2.0	0.1	0.1	3.0	0.1	0.1
16/11/92	2.5	0.1	0.1	3.5	0.1	0.1
17/11/92	4.0	0.1	0.1	5.0	0.1	0.1
19/11/92	1.5	0.1	0.1	2.0	0.1	0.1
20/11/92	3.0	0.1	0.1	4.0	0.1	0.1

NOTA: ND = no detectado
(límite detección: 0.1 ml/l)

SISTEMA PUERTO MADRYN

TABLA N° 262 - SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS (ml/l)			2 HORAS (ml/l)		
	CRUDO	SALIDA LAG.I	SALIDA LAG.III	CRUDO	SALIDA LAG.I	SALIDA LAG.III
21/11/92	3.0	ND	ND	3.5	0.1	0.1
22/11/92	2.5	0.1	ND	3.0	0.1	0.1
24/11/92	3.0	ND	ND	3.5	0.1	0.1
25/11/92	2.5	0.1	0.1	3.0	0.2	0.1
26/11/92	2.5	0.1	ND	3.5	0.1	0.1
27/11/92	3.0	ND	0.1	3.5	0.1	0.1
28/11/92	3.0	0.1	0.1	3.5	0.1	0.1
29/11/92	3.0	0.1	ND	3.5	0.1	0.1
30/11/92	2.5	ND	ND	3.0	0.1	0.1
1/12/92	2.5	0.1	ND	3.5	0.2	0.1
2/12/92	3.0	0.1	ND	3.5	0.1	0.1
3/12/92	2.5	ND	ND	3.5	0.1	0.1
4/12/92	3.0	0.1	ND	3.5	0.1	0.1

NOTA: ND = no detectado
(límite detección: 0.1 ml/l)

SISTEMA PUERTO MADRYN

TABLA N° 263 - SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	SALLAG.I (mg/l)	SALLAG.III (mg/l)
24/8/92	22	28	14
7/9/92	26	20	16
7/10/92	42	28	22
13/10/92	61	33	18
18/10/92	99	88	57
24/10/92	160	55	47
27/10/92	224	185	135
4/11/92	188	72	36
12/11/92	164	64	28
19/11/92	216	198	118
25/11/92	198	172	154
15/12/92	256	268	136

TABLA N° 264 - NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	SALLAG.I (mg/l)	SALLAG.III (mg/l)
23/6/92	41.44	29.32	28.56
24/8/92	35.20	12.32	16.16
7/9/92	26.20	16.20	16.16
7/10/92	2.10	2.50	2.30
13/10/92	2.80	1.40	1.30
18/10/92	3.50	2.50	3.80
24/10/92	2.00	1.70	1.70
27/10/92	3.10	3.00	3.60
4/11/92	3.70	3.60	4.60
12/11/92	3.50	3.20	4.00

SISTEMA PUERTO MADRYN

TABLA N° 265 - NITROGENO AMONICAL

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
23/6/92	33.60	25.28	26.32
24/8/92	16.80	6.16	10.08
7/9/92	16.80	10.08	10.08
7/10/92	1.70	2.00	1.80
13/10/92	2.20	1.10	1.00
18/10/92	2.80	2.00	3.10
24/10/92	1.60	1.40	1.50
27/10/92	2.50	2.40	2.90
4/11/92	3.00	2.90	3.70
12/11/92	2.80	2.60	3.20
19/11/92	5.00	2.50	5.00
25/11/92	3.50	3.70	4.00

TABLA N° 266 - NITRITOS

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
23/6/92	0.1	ND	ND
7/9/92	1.50	0.80	0.90
7/10/92	ND	ND	ND
13/10/92	ND	ND	ND
18/10/92	ND	ND	ND
19/11/92	ND	ND	ND
25/11/92	ND	ND	ND
15/12/92	ND	ND	ND

NOTA: ND = no detectado
(límite detección: 0.01 mg/l)

SISTEMA PUERTO MADRYN

TABLA N° 267 - FOSFORO TOTAL

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
23/6/92	10.00	10.00	10.00
24/8/92	8.00	7.50	5.00
7/9/92	8.00	1.50	1.00
7/10/92	20.10	10.70	20.10
13/10/92	21.40	17.40	17.40
18/10/92	20.10	12.10	20.10
24/10/92	18.00	16.00	16.00
27/10/92	16.00	12.00	19.00
4/11/92	18.70	19.00	24.00

TABLA N° 268 - FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	SAL.LAG.III (mg/l)
23/6/92	7.50	7.50	7.50
24/8/92	0.97	0.25	
7/9/92	2.97	2.00	1.53
7/10/92	15.00	8.00	15.00
13/10/92	16.00	13.00	13.00
18/10/92	15.00	9.00	15.00
24/10/92	14.00	12.00	13.00
27/10/92	12.00	9.00	14.00
4/11/92	14.00	14.00	
12/11/92	13.00		
19/11/92	15.00	10.00	18.00
25/11/92	22.00	23.00	
15/12/92	13.00	2.50	1.00

SISTEMA PUERTO MADRYN

TABLA N° 269 - GRASAS

FECHA	CRUDO (mg/l)	SALLAG.I (mg/l)	SALLAG.III (mg/l)
23/6/92	20	18	28
24/8/92	35	18	18

TABLA N° 270 - ARSENICO

FECHA	CRUDO (µg/l)	SALLAG.I (µg/l)	SALLAG.III (µg/l)
23/6/92	26	10	24
24/8/92	8	2	5

TABLA N° 271 - MICROORGANISMOS INDICADORES

FECHA	PARAMETRO (NMP/100 ml)									
	COLITOTALES			COLIFECALIS			STREPTOCOCCUS FAECALIS			
	ENTRADA	SALIDA LAG. I	SALIDA LAG.III	ENTRADA	SALIDA LAG. I	SALIDA LAG.III	ENTRADA	SALIDA LAG. I	SALIDA LAG.III	
15/6/92	3.5E+07	1.7E+07	1.7E+07	1.6E+06	1.0E+05	7.0E+04	1.8E+05	1.0E+04	8.0E+04	
23/7/92	4.0E+06	7.0E+05	7.3E+05	1.6E+05	2.0E+04	1.0E+04	2.1E+05	1.5E+04	1.5E+04	
24/8/92	6.6E+07	1.3E+06	8.0E+06	1.2E+07	4.1E+05	1.7E+06	4.7E+05	2.0E+04	3.0E+04	
7/9/92	7.1E+07	1.0E+07	7.9E+06	1.2E+07	1.6E+06	2.0E+06				
7/10/92	2.2E+07	1.4E+06	1.1E+06	2.0E+06	1.2E+05	1.0E+05				
13/10/92	1.7E+07	1.2E+06	9.3E+05	1.6E+06	1.0E+05	8.4E+04				
18/10/92	1.8E+07	9.8E+06	8.0E+06							
24/10/92	6.0E+06	2.1E+05	2.4E+05	1.6E+07	8.8E+05	7.7E+05				
27/10/92	1.0E+07	3.1E+04	2.5E+04							
4/11/92	8.3E+06	3.6E+05	4.0E+05							
12/11/92	1.0E+07	2.1E+05	2.0E+05							
19/11/92	1.1E+07	7.5E+05	3.0E+05							
25/11/92	2.2E+06	8.1E+05	6.0E+05							

SISTEMA PUERTO MADRYN

TABLA N° 272 - REMOCIONES DE DBO5 TOTAL

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
24/8/92	283	153	45.9	180	36.4
7/9/92	183	88	51.9	93	49.2
7/10/92	174	93	46.6	84	51.7
13/10/92	112	84	25.0	73	34.8
18/10/92	155	112	27.7	99	36.1
27/10/92	184	114	38.0	74	59.8
4/11/92	114	88	22.8		
12/11/92	94	45	52.1	36	61.7
19/11/92	150	132	12.0	118	21.3
25/11/92	139	129	7.2	128	7.9
15/12/92	136	93	31.6	68.0	50.0

TABLA N° 273 - REMOCIONES DE DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
24/8/92	180	89	50.6	93	48.3
7/9/92	130	57	56.2	63	51.5
7/10/92	102	76	25.5	73	28.4
13/10/92	88	69	21.6	69	21.6
18/10/92	116	99	14.7	97	16.4
4/11/92	66	51	22.7	30	54.5
12/11/92	48	36	25.0	26	45.8
25/11/92	112	97	13.4	99	11.6

TABLA N° 274 - REMOCIONES DE DQO

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
24/8/92	324	212	34.6	230	29.0
7/9/92	273	145	46.9	130	52.4
7/10/92	214	148	30.8	135	36.9
13/10/92	162	132	18.5	97	40.1
18/10/92	205	131	36.1	112	45.4
24/10/92	223	164	26.5	109	51.1
4/11/92	177	118	33.3	89	49.7
12/11/92	150	87	42.0	80	46.7
19/11/92	214	193	9.8	128	40.2
25/11/92	212	177	16.5	175	17.5

FECHA	10 MINUTOS				2 HORAS					
	CRUDO (ml/l)	SALLAG.I (ml/l)	REMOCION (%)	SALLAG.III (ml/l)	REMOCION (%)	CRUDO (ml/l)	SALLAG.I (ml/l)	REMOCION (%)	SALLAG.III (ml/l)	REMOCION (%)
7/9/92	3.0	0.1	96.7	0.1	96.7	1.0	4.0	0.1	97.5	0.1
8/9/92	2.0	0.1	95.0	0.1	95.0	2.0	2.5	0.1	96.0	0.1
9/9/92	3.0	0.1	96.7	0.1	96.7	3.0	4.5	0.1	97.8	0.1
10/9/92	4.5	0.1	97.8	0.1	97.8	4.0	5.5	0.5	90.9	0.1
11/9/92	2.0	0.1	95.0	0.1	95.0	5.0	2.5	0.1	96.0	0.1
14/9/92	4.0	0.1	97.5	0.1	97.5	6.0	3.0	0.1	96.7	0.1
15/9/92	3.0	0.1	96.7	0.1	96.7	7.0	4.5	0.1	97.8	0.1
16/9/92	2.5	0.1	96.0	0.1	96.0	8.0	4.0	0.1	97.5	0.1
17/9/92	3.0	0.1	96.7	0.1	96.7	9.0	3.5	0.1	97.1	0.1
18/9/92	4.0	0.1	97.5	0.1	97.5	10.0	5.5	0.1	98.2	0.1
21/9/92	2.5	0.5	80.0	0.1	96.0	11.0	5.0	0.9	82.0	0.1
22/9/92	1.5	0.1	93.3	0.1	93.3	12.0	2.5	0.1	96.0	0.1
23/9/92	4.0	0.1	97.5	0.1	97.5	13.0	5.0	0.1	98.0	0.1
24/9/92	3.0	0.1	96.7	0.1	96.7	14.0	4.0	0.1	97.5	0.1
25/9/92	3.0	0.1	96.7	0.1	96.7	15.0	3.5	0.1	97.1	0.1
28/9/92	3.0	0.1	96.7	0.1	96.7	16.0	5.0	0.1	98.0	0.1
29/9/92	2.0	0.1	95.0	0.1	95.0	17.0	3.0	0.1	96.7	0.1
30/9/92	5.0	0.1	98.0	0.1	98.0	18.0	6.0	0.1	98.3	0.1
1/10/92	4.0	0.1	97.5	0.1	97.5	19.0	5.0	0.1	98.0	0.1
2/10/92	3.5	0.1	97.1	0.1	97.1	20.0	5.0	0.1	98.0	0.1
5/10/92	2.0	0.1	95.0	0.2	90.0	21.0	4.0	0.1	97.5	0.2
6/10/92	3.0	0.1	96.7	0.1	96.7	22.0	3.5	0.1	97.1	0.1
7/10/92	7.0	0.1	98.6	0.1	98.6	23.0	8.0	0.1	98.8	0.1
8/10/92	2.0	0.1	95.0	0.1	95.0	24.0	3.0	0.1	96.7	0.1
9/10/92	2.5	0.1	96.0	0.1	96.0	25.0	3.0	0.1	96.7	0.1
13/10/92	6.0	0.1	98.3	0.2	96.7	26.0	6.5	0.2	96.9	0.2
14/10/92	3.0	0.1	96.7	0.1	96.7	27.0	4.5	0.1	97.8	0.1
15/10/92	5.0	0.1	98.0	0.1	98.0	28.0	5.5	0.1	98.2	0.1
16/10/92	2.0	0.1	95.0	0.1	95.0	29.0	3.0	0.1	96.7	0.1
19/10/92	5.5	0.1	98.2	0.1	98.2	30.0	6.0	0.1	98.3	0.1

NOTA: ND = no detectado
(límite detección: 0.1 ml/l)

TABLA N° 275 - REMOCIONES DE SOLIDOS SEDIMENTABLES (Continuación)

FECHA	10 MINUTOS					2 HORAS				
	CRUDO (ml/l)	SALLAG.I (ml/l)	REMOCION (%)	SALLAG.III (ml/l)	REMOCION (%)	CRUDO (ml/l)	SALLAG.I (ml/l)	REMOCION (%)	SALLAG.III (ml/l)	REMOCION (%)
20/10/92	3.0	0.1	96.7	0.1	96.7	31.0	4.0	97.5	0.1	97.5
21/10/92	5.0	0.1	98.0	0.1	98.0	32.0	6.0	98.3	0.1	98.3
22/10/92	4.0	0.1	97.5	0.1	97.5	33.0	4.0	97.5	0.1	97.5
23/10/92	7.5	0.1	98.7	0.1	98.7	34.0	9.5	98.9	0.1	98.9
27/10/92	3.0	0.1	96.7	0.1	96.7	35.0	4.0	97.5	0.1	97.5
28/10/92	6.0	0.1	98.3	0.1	98.3	36.0	7.0	98.6	0.1	98.6
29/10/92	4.0	0.5	87.5	0.1	97.5	37.0	5.0	90.0	0.1	98.0
30/10/92	4.0	0.1	97.5	0.1	97.5	38.0	4.5	97.8	0.1	97.8
2/11/92	2.0	0.1	95.0	0.1	95.0	39.0	2.5	96.0	0.1	96.0
3/11/92	1.5	0.1	93.3	0.1	93.3	40.0	2.0	75.0	0.1	95.0
4/11/92	4.0	0.2	95.0	0.1	97.5	41.0	5.0	96.0	0.1	98.0
5/11/92	2.0	0.1	95.0	0.1	95.0	42.0	3.5	97.1	0.1	97.1
6/11/92	2.5	0.1	96.0	0.1	96.0	43.0	3.0	96.7	0.1	96.7
10/11/92	2.0	0.1	95.0	0.1	95.0	44.0	2.5	96.0	0.1	96.0
11/11/92	4.5	0.1	97.8	0.1	97.8	45.0	6.0	98.3	0.1	98.3
12/11/92	2.0	0.1	95.0	0.1	95.0	46.0	2.5	96.0	0.1	96.0
13/11/92	2.0	0.1	95.0	0.1	95.0	47.0	3.0	96.7	0.1	96.7
16/11/92	2.5	0.1	96.0	0.1	96.0	48.0	3.5	97.1	0.1	97.1
17/11/92	4.0	0.1	97.5	0.1	97.5	49.0	5.0	98.0	0.1	98.0
19/11/92	1.5	0.1	93.3	0.1	93.3	50.0	2.0	95.0	0.1	95.0
20/11/92	3.0	0.1	96.7	0.1	96.7	51.0	4.0	97.5	0.1	97.5
21/11/92	3.0	ND	96.7	ND	96.7	52.0	3.5	97.1	0.1	97.1
22/11/92	2.5	0.1	96.0	ND	96.0	53.0	3.0	96.7	0.1	96.7
24/11/92	3.0	ND	96.7	ND	96.7	54.0	3.5	97.1	0.1	97.1
25/11/92	2.5	0.1	96.0	0.1	96.0	55.0	3.0	93.3	0.1	96.7
26/11/92	2.5	0.1	96.0	ND	96.0	56.0	3.5	97.1	0.1	97.1
27/11/92	3.0	ND	96.7	0.1	96.7	57.0	3.5	97.1	0.1	97.1
28/11/92	3.0	0.1	96.7	0.1	96.7	58.0	3.5	97.1	0.1	97.1
29/11/92	3.0	0.1	96.7	ND	96.7	59.0	3.5	97.1	0.1	97.1
30/11/92	2.5	ND	96.0	ND	96.0	60.0	3.0	96.7	0.1	96.7
1/12/92	2.5	0.1	96.0	ND	96.0	61.0	3.5	94.3	0.1	97.1
2/12/92	3.0	0.1	96.7	ND	96.7	62.0	3.5	97.1	0.1	97.1
3/12/92	2.5	ND	96.0	ND	96.0	63.0	3.5	97.1	0.1	97.1
4/12/92	3.0	0.1	96.7	ND	96.7	64.0	3.5	97.1	0.1	97.1

NOTA: ND = no detectado
(límite detección: 0.1 ml/l)

SISTEMA PUERTO MADRYN

TABLA N° 276 - REMOCIONES DE OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
3/8/92	45.8	29.7	35.2	26.1	43.0
4/8/92	50.8	29.0	42.9	24.6	51.6
6/8/92	48.5	30.3	37.5	25.0	48.5
7/8/92	44.2	30.8	30.3	26.2	40.7
10/8/92	42.7	30.1	29.5	27.1	36.5
11/8/92	41.1	27.1	34.1	26.3	36.0
12/8/92	47.5	30.2	36.4	28.8	39.4
13/8/92	35.7	29.8	16.5	27.9	21.8
14/8/92	45.6	30.6	32.9	28.6	37.3
18/8/92	43.0	27.5	36.0	25.0	41.9
19/8/92	49.0	30.3	38.2	25.9	47.1
20/8/92	52.2	30.8	41.0	27.0	48.3
24/8/92	64.3	51.7	19.6	48.2	25.0
25/8/92	70.4	48.6	31.0	49.0	30.4
26/8/92	68.0	50.8	25.3	48.6	28.5
27/8/92	63.9	50.1	21.6	47.2	26.1
28/8/92	63.1	49.7	21.2	26.2	58.5
31/8/92	53.6	23.4	56.3	21.0	60.8
1/9/92	34.1	27.1	20.5	23.3	31.7
2/9/92	35.3	24.9	29.5	24.0	32.0
3/9/92	37.5	26.0	30.7	23.6	37.1
4/9/92	40.2	23.8	40.8	20.6	48.8
7/9/92	44.7	24.7	44.7	21.8	51.2
8/9/92	35.0	24.5	30.0	21.5	38.6
9/9/92	45.1	26.6	41.0	23.0	49.0
10/9/92	43.0	26.6	38.1	23.2	46.0
11/9/92	33.7	25.2	25.2	23.3	30.9
14/9/92	38.9	26.8	31.1	22.5	42.2
15/9/92	38.4	28.0	27.1	22.5	41.4
16/9/92	34.7	26.8	22.8	23.3	32.9
17/9/92	34.2	27.3	20.2	23.8	30.4
18/9/92	42.2	25.4	39.8	22.4	46.9
21/9/92	33.3	27.8	16.5	23.8	28.5
22/9/92	39.0	28.4	27.2	22.3	42.8
23/9/92	36.3	27.9	23.1	24.1	33.6
24/9/92	42.9	28.0	34.7	23.3	45.7
25/9/92	43.2	26.2	39.4	23.0	46.8
28/9/92	42.8	25.5	40.4	21.8	49.1
29/9/92	45.5	24.9	45.3	21.9	51.9
30/9/92	53.8	31.8	40.9	25.8	52.0

SISTEMA PUERTO MADRYN

TABLA N° 276 - REMOCIONES DE OXIGENO CONSUMIDO (Continuación)

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
1/10/92	41.7	26.2	37.2	21.0	49.6
2/10/92	45.1	29.7	34.1	25.2	44.1
5/10/92	47.0	32.2	31.5	28.0	40.4
6/10/92	44.3	28.9	34.8	25.2	43.1
7/10/92	53.2	30.2	43.2	26.2	50.8
8/10/92	47.6	29.8	37.4	26.0	45.4
9/10/92	45.6	27.4	39.9	22.0	51.8
13/10/92	46.8	27.3	41.7	22.6	51.7
14/10/92	55.4	26.4	52.3	23.7	57.2
15/10/92	44.1	26.4	40.1	23.0	47.8
16/10/92	39.5	26.7	32.4	25.1	36.5
19/10/92	32.6	31.6	3.1	29.3	10.1
20/10/92	38.5	32.3	16.1	27.0	29.9
21/10/92	43.4	29.8	31.3	27.5	36.6
22/10/92	39.9	30.7	23.1	25.9	35.1
23/10/92	74.3	27.2	63.4	34.3	53.8
26/10/92	35.6	25.6	28.1	23.9	32.9
28/10/92	34.6	28.3	18.2	26.1	24.6
29/10/92	40.5	29.0	28.4	29.0	28.4
30/10/92	36.8	27.2	26.1	26.8	27.2
02/11/92	32.3	27.8	13.9	24.5	24.1
04/11/92	29.4	26.0	11.6	23.1	21.4
05/11/92	32.3	26.0	19.5	26.8	17.0
06/11/92	35.6	27.0	24.2	22.5	36.8
10/11/92	28.3	25.7	9.2	22.1	21.9
12/11/92	32.1	24.7	23.1	22.7	29.3
13/11/92	29.2	27.1	7.2	26.6	8.9
17/11/92	52.3	33.0	36.9	32.6	37.7
18/11/92	34.0	31.6	7.1	29.3	13.8
19/11/92	33.0	29.7	10.0	30.3	8.2
20/11/92	30.1	31.4	0.0	34.2	0.0
23/11/92	32.2	34.0	0.0	34.8	0.0
24/11/92	33.4	32.4	3.0	31.9	4.5
25/11/92	33.6	30.4	9.5	32.4	3.6
26/11/92	35.4	32.5	8.2	32.0	9.6
27/11/92	36.1	31.3	13.3	34.3	5.0
30/11/92	29.6	34.9	0.0	38.2	0.0
01/12/92	38.4	34.6	9.9	33.0	14.1
02/12/92	31.0	34.6	0.0	32.9	0.0
03/12/92	31.0	33.8	0.0	32.2	0.0
04/12/92	34.7	35.0	0.0	33.2	4.3
07/12/92	31.1	37.4	0.0	38.5	0.0
09/12/92	39.5	41.9	0.0	39.0	1.3

TABLA N° 277 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
24/8/92	22	28	0.0	14	36.4
7/9/92	26	20	23.1	16	38.5
7/10/92	42	28	33.3	22	47.6
13/10/92	61	33	45.9	18	70.5
18/10/92	99	88	11.1	57	42.4
24/10/92	160	55	65.6	47	70.6
27/10/92	224	185	17.4	135	39.7
4/11/92	188	72	61.7	36	80.9
12/11/92	164	64	61.0	28	82.9
19/11/92	216	198	8.3	118	45.4
25/11/92	198	172	13.1	154	22.2
15/12/92	256	268	0.0	136	46.9

TABLA N° 278 - REMOCIONES DE NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
23/6/92	41.44	29.32	29.2	28.56	31.1
24/8/92	35.20	12.32	65.0	16.16	54.1
7/9/92	26.20	16.20	38.2	16.16	38.3
7/10/92	2.10	2.50	0.0	2.30	0.0
13/10/92	2.80	1.40	50.0	1.30	53.6
18/10/92	3.50	2.50	28.6	3.80	0.0
24/10/92	2.00	1.70	15.0	1.70	15.0
27/10/92	3.10	3.00	3.2	3.60	0.0
4/11/92	3.70	3.60	2.7	4.60	0.0
12/11/92	3.50	3.20	8.6	4.00	0.0

TABLA N° 279 - REMOCIONES DE NITROGENO AMONIACAL

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
23/6/92	33.60	25.28	24.8	26.32	21.7
24/8/92	16.80	6.16	63.3	10.08	40.0
7/9/92	16.80	10.08	40.0	10.08	40.0
7/10/92	1.70	2.00	0.0	1.80	0.0
13/10/92	2.20	1.10	50.0	1.00	54.5
18/10/92	2.80	2.00	28.6	3.10	0.0
24/10/92	1.60	1.40	12.5	1.50	6.3
27/10/92	2.50	2.40	4.0	2.90	0.0
4/11/92	3.00	2.90	3.3	3.70	0.0
12/11/92	2.80	2.60	7.1	3.20	0.0
19/11/92	5.00	2.50	50.0	5.00	0.0
25/11/92	3.50	3.70	0.0	4.00	0.0

SISTEMA PUERTO MADRYN

TABLA N° 280 - REMOCION DE NITRITOS

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
23/6/92	0.10	ND	90.0	90.0	90.0
7/9/92	1.50	0.80	46.7	46.7	40.0

TABLA N° 281 - REMOCIONES DE FOSFORO TOTAL

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
23/6/92	10.00	10.00	0.0	10.00	0.0
24/8/92	8.00	7.50	6.3	5.00	37.5
7/9/92	8.00	1.50	81.3	1.00	87.5
7/10/92	20.10	10.70	46.8	20.10	0.0
13/10/92	21.40	17.40	18.7	17.40	18.7
18/10/92	20.10	12.10	39.8	20.10	0.0
24/10/92	18.00	16.00	11.1	16.00	11.1
27/10/92	16.00	12.00	25.0	19.00	0.0
4/11/92	18.70	19.00	0.0	24.00	0.0

TABLA N° 282 - REMOCIONES DE FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
23/6/92	7.50	7.50	0.0	7.50	0.0
24/8/92	0.97	0.25	74.2		
7/9/92	2.97	2.00	32.7	1.53	48.5
7/10/92	15.00	8.00	46.7	15.00	0.0
13/10/92	16.00	13.00	18.8	13.00	18.8
18/10/92	15.00	9.00	40.0	15.00	0.0
24/10/92	14.00	12.00	14.3	13.00	7.1
27/10/92	12.00	9.00	25.0	14.00	0.0
4/11/92	14.00	14.00	0.0		
19/11/92	15.00	10.00	33.3	18.00	0.0
25/11/92	22.00	23.00	0.0		
15/12/92	13.00	2.50	80.8	1.00	92.3

SISTEMA PUERTO MADRYN

TABLA N° 283 - REMOCIONES DE GRASAS

FECHA	CRUDO (mg/l)	SAL.LAG.I (mg/l)	REMOCION (%)	SAL.LAG.III (mg/l)	REMOCION (%)
23/6/92	20	18	10.0	28	0.0
24/8/92	35	18	48.6	18	48.6

TABLA N° 284 - REMOCIONES DE ARSENICO

FECHA	CRUDO (µg/l)	SAL.LAG.I (µg/l)	REMOCION (%)	SAL.LAG.III (µg/l)	REMOCION (%)
23/6/92	26	10	61.5	24	7.7
24/8/92	8	2	75.0	5	37.5

SISTEMA PUERTO MADRYN

TABLA N° 285 - REMOCIONES DE MICROORGANISMOS INDICADORES

FECHA	COLITOTALES			COLIFECALIS			STREPTOCOCCUS FAECALIS		
	ENTRADA (NMP/100ml)	SAL.LAG.I (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SAL.LAG.I (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SAL.LAG.I (NMP/100ml)	REMOCION (%)
15/6/92	3.5E+07	1.7E+07	51.4	1.6E+06	1.0E+05	93.8	1.8E+05	1.0E+04	94.4
23/7/92	4.0E+06	7.0E+05	82.5	1.6E+05	2.0E+04	87.5	2.1E+05	1.5E+04	92.9
24/8/92	6.6E+07	1.3E+06	98.0	1.2E+07	4.1E+05	96.6	4.7E+05	2.0E+04	95.7
7/9/92	7.1E+07	1.0E+07	85.9	1.2E+07	1.5E+06	86.7			
7/10/92	2.2E+07	1.4E+06	93.6	2.0E+06	1.2E+05	94.0			
13/10/92	1.7E+07	1.2E+06	92.9	1.6E+06	1.0E+05	93.8			
18/10/92	1.8E+07	9.8E+06	45.6	1.6E+07	8.8E+05	94.5			
24/10/92	6.0E+06	2.1E+05	96.5						
27/10/92	1.0E+07	3.1E+04	99.7						
4/11/92	8.3E+06	3.6E+05	95.7						
12/11/92	1.0E+07	2.1E+05	97.9						
19/11/92	1.1E+07	7.5E+05	93.2						
25/11/92	2.2E+06	8.1E+05	63.2						

TABLA N° 286 - REMOCIONES DE MICROORGANISMOS INDICADORES

FECHA	COLITOTALES			COLIFECALIS			STREPTOCOCCUS FAECALIS		
	ENTRADA (NMP/100ml)	SALLAG.III (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALLAG.III (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALLAG.III (NMP/100ml)	REMOCION (%)
15/6/92	3.5E+07	1.7E+07	51.4	1.6E+06	7.0E+04	95.6	1.8E+05	8.0E+04	55.6
23/7/92	4.0E+06	7.0E+05	82.5	1.6E+05	1.0E+04	93.8	2.1E+05	1.5E+04	92.9
24/8/92	6.6E+07	8.0E+06	87.9	1.2E+07	1.7E+06	85.8	4.7E+05	3.0E+04	93.6
7/9/92	7.1E+07	7.9E+06	88.9	1.2E+07	2.0E+06	83.3			
7/10/92	2.2E+07	1.1E+06	95.0	2.0E+06	1.0E+05	95.0			
13/10/92	1.7E+07	9.3E+05	94.5	1.6E+06	8.4E+04	94.8			
18/10/92	1.8E+07	8.0E+06	55.6	1.6E+07	7.7E+05	95.2			
24/10/92	6.0E+06	2.4E+05	96.0						
27/10/92	1.0E+07	2.5E+05	97.5						
4/11/92	8.3E+06	4.0E+05	95.2						
12/11/92	1.0E+06	2.0E+05	80.0						
19/11/92	1.1E+07	3.0E+05	97.3						
25/11/92	2.2E+06	6.0E+05	72.7						

SISTEMA: MADRYN

TABLA N°: ..287.. - EXAMEN MICROBIOLOGICO DE PLANCTON

(Fecha: Octubre 1992)

FITOPLANCTON Organismos Vegetales	Organismos/litro
CYANOPHYCEAE	
<u>Oscillatoria</u> sp.	500
<u>Chroococcus</u> sp.	70
BACILLARRIOPHYCEAE	
<u>Navícula</u> sp.	30
EUGLENOPHYCEAE	
<u>Euglena</u> sp.	40
ZOOPLANCTON Organismos Animales	
RHIZOPODA	
TECAMEBA	15
NEMATA	30
CILIATA	150
<u>Paramecio</u> sp.	12
ROTIFERA	50

NOTA: Examen realizado en Laboratorio de OSN

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
20/5/92	1		
21/5/92	2		
22/5/92	3		
23/5/92	4		
24/5/92	5		
25/5/92	6		
26/5/92	7		
27/5/92	8	7.30	44.6
	8	11.00	47.2
	8	13.00	60.8
	8	16.00	58.0
28/5/92	9	7.30	32.4
	9	11.00	49.8
	9	13.00	44.6
	9	16.00	47.2
29/5/92	10	7.30	32.4
	10	11.00	47.2
	10	13.00	60.8
	10	16.00	66.6
30/5/92	11		
31/5/92	12		
1/6/92	13	7.30	29.0
	13	11.00	49.8
	13	13.00	52.5
	13	16.00	49.8
2/6/92	14	7.30	27.9
	14	11.00	44.6
	14	13.00	49.8
	14	16.00	58.0
3/6/92	15	7.30	31.2
	15	11.00	49.8
	15	13.00	60.8
	15	16.00	60.8
4/6/92	16	7.30	29.0
	16	11.00	52.5
	16	13.00	56.6
	16	16.00	55.2
5/6/92	17	7.30	30.1
	17	11.00	45.2
	17	13.00	63.8
	17	16.00	52.5
6/6/92	18		
7/6/92	19		

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
8/6/92	20		
9/6/92	21	7.30	29.0
	21	11.00	60.8
	21	13.00	60.8
	21	16.00	56.6
10/6/92	22	7.30	29.0
	22	11.00	55.2
	22	13.00	56.6
11/6/92	23	7.30	26.8
	23	11.00	58.0
	23	13.00	53.8
	23	16.00	51.1
12/6/92	24	7.30	53.5
	24	11.00	59.4
	24	13.00	60.8
	24	16.00	53.8
13/6/92	25	7.30	27.9
	25	11.00	55.2
	25	13.00	56.6
	25	16.00	52.5
14/6/92	26	7.30	27.9
	26	11.00	
	26	13.00	
	26	16.00	
15/6/92	27		
16/6/92	28	7.30	27.9
	28	11.00	42.0
	28	13.00	55.2
	28	16.00	52.5
17/6/92	29		
18/6/92	30	7.30	30.1
	30	11.00	52.5
19/6/92	31	7.30	31.3
	31	11.00	56.6
	31	13.00	60.8
	31	16.00	58.0
20/6/92	32	7.30	69.5
	32	11.00	72.5
	32	13.00	59.4
	32	16.00	56.6
21/6/92	33		
22/6/92	34	7.30	49.9
	34	11.00	47.2
	34	13.00	72.5
	34	16.00	74.2

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
23/6/92	35	7.30	29.0
	35	11.00	58.0
	35	13.00	62.5
	35	16.00	59.3
24/6/92	36	7.30	30.1
	36	11.00	55.2
	36	13.00	60.8
	36	16.00	56.6
25/6/92	37	7.30	32.4
	37	11.00	60.8
	37	13.00	59.4
	37	16.00	55.2
26/6/92	38	7.30	42.0
	38	11.00	45.9
	38	13.00	58.0
	38	16.00	56.6
27/6/92	39	7.30	25.7
	39	11.00	44.6
	39	13.00	53.8
	39	16.00	52.5
28/6/92	40		
29/6/92	41	7.30	48.5
	41	11.00	51.1
	41	13.00	58.0
30/6/92	42	7.30	26.8
	42	11.00	47.2
	42	13.00	63.7
1/7/92	43	7.30	26.8
	43	11.00	48.5
	43	13.00	59.4
	43	16.00	55.2
2/7/92	44	7.30	25.7
	44	11.00	55.2
	44	13.00	63.7
	44	16.00	56.6
3/7/92	45	7.30	27.9
	45	11.00	43.3
	45	13.00	60.8
	45	16.00	53.8
4/7/92	46	7.30	30.1
	46	11.00	53.8
	46	13.00	56.6
	46	16.00	52.5

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
5/7/92	47		
6/7/92	48	7.30	27.9
	48	11.00	43.3
	48	13.00	58.0
	48	16.00	59.4
7/7/92	49	7.30	25.7
	49	11.00	53.8
	49	13.00	56.6
	49	16.00	55.2
8/7/92	50	7.30	30.1
	50	11.00	52.5
	50	13.00	55.2
9/7/92	51	7.30	29.0
	51	11.00	49.8
	51	13.00	56.6
	51	16.00	60.8
10/7/92	52	7.30	50.1
	52	11.00	52.5
	52	13.00	58.0
	52	16.00	60.8
11/7/92	53		
12/7/92	54		
13/7/92	55	7.30	31.2
	55	11.00	55.2
	55	13.00	56.6
	55	16.00	58.0
14/7/92	56	7.30	27.9
	56	11.00	55.2
	56	13.00	56.6
	56	16.00	58.0
	45	16.00	53.8
4/7/92	46	7.30	30.1
	46	11.00	53.8
	46	13.00	56.6
	46	16.00	52.5
5/7/92	47		
6/7/92	48	7.30	27.9
	48	11.00	43.3
	48	13.00	58.0
	48	16.00	59.4
7/7/92	49	7.30	25.7
	49	11.00	53.8
	49	13.00	56.6
	49	16.00	55.2

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
8/7/92	50	7.30	30.1
	50	11.00	52.5
	50	13.00	55.2
9/7/92	51	7.30	29.0
	51	11.00	49.8
	51	13.00	56.6
	51	16.00	60.8
10/7/92	52	7.30	50.1
	52	11.00	52.5
	52	13.00	58.0
	52	16.00	60.8
11/7/92	53		
12/7/92	54		
13/7/92	55	7.30	31.2
	55	11.00	55.2
	55	13.00	56.6
	55	16.00	58.0
14/7/92	56	7.30	27.9
	56	11.00	55.2
	56	13.00	56.6
	56	16.00	58.0
15/7/92	57	7.30	25.6
	57	11.00	56.6
	57	13.00	63.7
	57	16.00	60.8
16/7/92	58	7.30	25.7
	58	11.00	29.0
17/7/92	59		
18/7/92	60		
19/7/92	61		
20/7/92	62		
21/7/92	63		
22/7/92	64		
23/7/92	65		
24/7/92	66	7.30	25.7
	66	11.00	43.3
	66	13.00	59.4
	66	16.00	60.8
25/7/92	67	7.30	25.7
26/7/92	68		
27/7/92	69	7.30	25.7
	69	11.00	44.6
	69	13.00	56.6
	69	16.00	62.2

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
28/7/92	70	7.30	25.7
	70	11.00	53.8
	70	13.00	56.6
	70	16.00	58.0
29/7/92	71	7.30	25.7
	71	11.00	53.8
	71	13.00	56.6
	71	16.00	58.0
30/7/92	72	7.30	25.7
	72	11.00	58.0
	72	13.00	87.2
	72	16.00	58.0
31/7/92	73	7.30	25.7
	73	11.00	
	73	13.00	
	73	16.00	
1/8/92	74	7.30	25.7
	74	11.00	60.8
	74	13.00	58.0
	74	16.00	58.0
2/8/92	75		
3/8/92	76	7.30	25.7
	76	11.00	56.6
	76	13.00	60.8
	76	16.00	59.4
4/8/92	77	7.30	25.7
	77	11.00	55.2
	77	13.00	56.6
	77	16.00	60.8
5/8/92	78	7.30	25.7
	78	11.00	53.8
	78	13.00	55.2
	78	16.00	59.4
6/8/92	79	7.30	25.7
	79	11.00	27.9
	79	13.00	33.5
	79	16.00	47.0
7/8/92	80	7.30	30.1
	80	11.00	27.9
	80	13.00	45.9
	80	16.00	56.6
8/8/92	81		
9/8/92	82		

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
10/8/92	83	7.30	25.7
	83	11.00	40.8
	83	13.00	53.9
	83	16.00	55.2
11/8/92	84	7.30	26.8
	84	11.00	29.0
	84	13.00	54.4
	84	16.00	55.2
12/8/92	85	7.30	29.0
	85	11.00	39.6
	85	13.00	58.0
	85	16.00	56.6
13/8/92	86	7.30	25.7
	86	11.00	34.7
	86	13.00	60.8
	86	16.00	60.8
14/8/92	87	7.30	25.7
	87	11.00	53.8
	87	13.00	60.8
	87	16.00	62.2
15/8/92	88	7.30	25.7
	88	11.00	32.4
	88	13.00	53.8
	88	16.00	53.8
16/8/92	89		
17/8/92	90	7.30	26.8
	90	11.00	27.9
	90	13.00	30.1
	90	16.00	33.6
18/8/92	91	7.30	29.0
	91	11.00	52.5
	91	13.00	56.6
	91	16.00	62.2
19/8/92	92	7.30	25.7
	92	11.00	55.2
	92	13.00	56.6
	92	16.00	56.6
20/8/92	93	7.30	29.0
	93	11.00	53.8
	93	13.00	60.8
	93	16.00	60.8
21/8/92	94	7.30	25.7
	94	11.00	53.8
	94	13.00	60.8
	94	16.00	62.2

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
22/8/92	95	7.30	33.6
	95	11.00	55.2
	95	13.00	78.9
	95	16.00	65.1
23/8/92	96		
24/8/92	97		
25/8/92	98	7.30	25.7
	98	11.00	56.6
	98	13.00	56.6
	98	16.00	55.2
26/8/92	99	7.30	25.7
	99	11.00	60.8
	99	13.00	60.8
	99	16.00	59.9
27/8/92	100	7.30	25.7
	100	11.00	31.2
	100	13.00	53.9
	100	16.00	56.6
28/8/92	101	7.30	26.8
	101	11.00	33.6
	101	13.00	60.8
	101	16.00	62.2
29/8/92	102	7.30	25.7
	102	11.00	53.8
	102	13.00	60.8
	102	16.00	53.8
30/8/92	103		
31/8/92	104	7.30	27.9
	104	11.00	34.2
	104	13.00	37.1
	104	16.00	33.6
1/9/92	105	7.30	26.8
	105	11.00	34.7
	105	13.00	53.8
	105	16.00	56.6
2/9/92	106	7.30	25.7
	106	11.00	56.6
	106	13.00	58.0
	106	16.00	59.4
3/9/92	107	7.30	27.9
	107	11.00	52.5
	107	13.00	53.8
	107	16.00	60.8

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
4/9/92	108	7.30	25.7
	108	11.00	53.8
	108	13.00	56.6
	108	16.00	56.6
5/9/92	109	7.30	25.7
	109	11.00	33.6
	109	13.00	60.8
	109	16.00	59.4
6/9/92	110		
7/9/92	111	7.30	27.9
	111	11.00	56.6
	111	13.00	56.6
	111	16.00	60.8
8/9/92	112	7.30	29.0
	112	11.00	37.1
	112	13.00	53.8
	112	16.00	59.4
9/9/92	113	7.30	25.7
	113	11.00	27.9
	113	13.00	56.6
	113	16.00	58.0
10/9/92	114	7.30	25.7
	114	11.00	60.8
	114	13.00	60.8
	114	16.00	59.3
11/9/92	115	7.30	31.2
	115	11.00	33.6
	115	13.00	55.2
	115	16.00	
12/9/92	116	7.30	25.7
	116	11.00	33.6
	116	13.00	56.6
	116	16.00	60.8
13/9/92	117		
14/9/92	118	7.30	25.7
	118	11.00	55.2
	118	13.00	59.4
	118	16.00	60.8
15/09/92	119	7.30	30.1
	119	11.00	53.8
	119	13.00	58.0
	119	16.00	60.8

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
16/09/92	120	7.30	25.7
	120	11.00	53.8
	120	13.00	60.8
	120	16.00	63.7
17/09/92	121	7.30	25.7
	121	11.00	39.6
	121	13.00	58.0
	121	16.00	80.2
18/09/92	122	7.30	25.7
	122	11.00	39.6
	122	13.00	55.2
	122	16.00	60.8
19/09/92	123	7.30	25.7
	123	11.00	42.0
	123	13.00	56.6
	123	16.00	60.8
21/09/92	125	7.30	26.8
	125	11.00	27.9
	125	13.00	53.8
	125	16.00	56.6
22/09/92	126	7.30	25.7
	126	11.00	27.9
	126	13.00	59.4
	126	16.00	60.8
23/09/92	127	7.30	25.7
	127	11.00	60.8
	127	13.00	60.8
	127	16.00	60.8
24/09/92	128	7.30	25.7
	128	11.00	53.8
	128	13.00	60.8
	128	16.00	59.4
25/09/92	129	7.30	26.8
	129	11.00	56.6
	129	13.00	53.8
	129	16.00	55.2
26/09/92	130	7.30	25.7
	130	11.00	44.6
	130	13.00	53.8
	130	16.00	60.8
28/09/92	132	7.30	25.7
	132	11.00	53.8
	132	13.00	60.8
	132	16.00	60.8

TABLA Nro. 288 - SISTEMA "PILAR"
CAUDAL (cont.)

FECHA	DIA OPERATIVO	HORA	CAUDAL CRUDO l/s
29/09/92	133	7.30	27.9
	133	11.00	55.2
	133	13.00	56.6
	133	16.00	69.5
30/09/92	134	7.30	25.7
	134	11.00	56.6
	134	13.00	56.6
	134	16.00	59.4
01/10/92	135	7.30	30.1
	135	11.00	60.8
	135	13.00	62.2
	135	16.00	56.6
02/10/92	136	7.30	30.1
	136	11.00	52.5
	136	13.00	56.6
	136	16.00	60.8
03/10/92	137	7.30	26.8
	137	11.00	55.2
	137	13.00	60.8
	137	16.00	56.6
05/10/92	139	7.30	50.2
	139	11.00	49.8
	139	13.00	56.6
	139	16.00	60.8
06/10/92	140	7.30	25.7
	140	11.00	53.8
	140	13.00	56.6
	140	16.00	60.8
07/10/92	141	7.30	25.7
	141	11.00	60.8
	141	13.00	60.8
	141	16.00	59.4
08/10/92	142	7.30	35.9
	142	11.00	53.8
	142	13.00	56.6
	142	16.00	60.8
	142	22.00	30.0
	142	24.00	25.0
09/10/92	143	2.00	26.1
	143	4.00	26.1
	143	6.00	26.1
	143	22.00	35.0
	143	24.00	30.0
10/10/92	144	2.00	25.0
	144	4.00	25.0
	144	6.00	

TABLA Nro. 289 - SISTEMA "PILAR"
CAUDAL MEDIO DIARIO

FECHA	DIA OPERATIVO	CAUDAL CRUDO DIARIO l/s
27/5/92	8	52.6
28/5/92	9	43.5
29/5/92	10	51.7
1/6/92	13	45.3
2/6/92	14	45.1
3/6/92	15	50.7
4/6/92	16	48.3
5/6/92	17	47.9
9/6/92	21	51.8
10/6/92	22	46.9
11/6/92	23	47.4
12/6/92	24	56.9
13/6/92	25	48.0
14/6/92	26	27.9
16/6/92	28	44.4
18/6/92	30	41.3
19/6/92	31	51.7
20/6/92	32	64.5
22/6/92	34	60.9
23/6/92	35	52.2
24/6/92	36	50.7
25/6/92	37	51.9
26/6/92	38	50.6
27/6/92	39	44.2
29/6/92	41	52.5
30/6/92	42	45.9
1/7/92	43	47.5
2/7/92	44	50.3
3/7/92	45	46.5
4/7/92	46	48.3
6/7/92	48	47.1
7/7/92	49	47.8
8/7/92	50	45.9
9/7/92	51	49.1
10/7/92	52	55.3
13/7/92	55	50.3

TABLA Nro. 289 - SISTEMA "PILAR"
CAUDAL MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	CAUDAL CRUDO DIARIO l/s
14/7/92	56	49.4
15/7/92	57	51.7
16/7/92	58	27.4
24/7/92	66	47.3
25/7/92	67	25.7
27/7/92	69	47.3
28/7/92	70	48.5
29/7/92	71	48.5
30/7/92	72	57.2
31/7/92	73	25.7
1/8/92	74	50.6
3/8/92	76	50.6
4/8/92	77	49.6
5/8/92	78	48.5
6/8/92	79	33.5
7/8/92	80	40.1
10/8/92	83	43.9
11/8/92	84	41.4
12/8/92	85	45.8
13/8/92	86	45.5
14/8/92	87	50.7
15/8/92	88	41.4
17/8/92	90	29.6
18/8/92	91	50.1
19/8/92	92	48.5
20/8/92	93	51.1
21/8/92	94	50.7
22/8/92	95	58.2
25/8/92	98	48.5
26/8/92	99	51.8
27/8/92	100	41.9
28/8/92	101	45.8
29/8/92	102	48.6
31/8/92	104	33.2
1/9/92	105	43.0
2/9/92	106	49.9

TABLA Nro. 289 - SISTEMA "PILAR"
CAUDAL MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	CAUDAL CRUDO DIARIO l/s
3/9/92	107	48.8
4/9/92	108	48.2
5/9/92	109	44.9
7/9/92	111	50.5
8/9/92	112	44.8
9/9/92	113	42.0
10/9/92	114	51.6
11/9/92	115	40.0
12/9/92	116	44.2
14/9/92	118	50.3
15/09/92	119	50.7
16/09/92	120	51.0
17/09/92	121	50.9
18/09/92	122	45.3
19/09/92	123	46.3
21/09/92	125	41.3
22/09/92	126	43.5
23/09/92	127	52.0
24/09/92	128	49.9
25/09/92	129	48.1
26/09/92	130	46.2
28/09/92	132	50.3
29/09/92	133	52.3
30/09/92	134	49.6
01/10/92	135	52.4
02/10/92	136	50.0
03/10/92	137	49.9
05/10/92	139	54.4
06/10/92	140	49.2
07/10/92	141	51.7
08/10/92	142	43.7
09/10/92	143	28.7
10/10/92	144	25.0

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
20/5/92	1	10.00	11.5	17.7	15.9	15.3
21/5/92	2	7.30	10.5	20.2	18.4	18.5
	2	11.00	12.5	20.6	18.4	18.5
	2	13.00	13.9	20.4	18.4	18.1
	2	16.00	14.6	20.5	18.6	18.4
22/5/92	3	7.30	13.6	20.4	18.9	19.0
	3	11.00	11.1	20.9	18.7	18.7
	3	13.00	10.5	20.4	18.9	18.8
	3	16.00	13.1	18.9	18.1	18.2
23/5/92	4	7.30	11.1	20.6	18.7	18.4
	4	11.00	10.4	19.6	18.3	18.5
	4	13.00	9.3	20.2	18.3	18.1
	4	16.00	11.1	19.5	18.6	18.3
24/5/92	5					
25/5/92	6					
26/5/92	7	7.30	17.4	24.2	22.7	21.5
	7	11.00	16.2	21.6	19.9	19.6
	7	13.00	16.4	21.2	19.6	19.5
	7	16.00		21.1	19.9	19.8
27/5/92	8	7.30	7.7	20.4	18.8	18.9
	8	11.00	9.6	20.6	18.4	18.9
	8	13.00	14.7	20.6	17.8	18.1
	8	16.00	10.6	20.4	18.3	18.1
28/5/92	9	7.30	5.9	20.8	17.9	18.4
	9	11.00	10.6	20.4	17.6	17.5
	9	13.00	12.7	20.5	17.7	17.2
	9	16.00	8.9	20.3	17.9	17.6
29/5/92	10	7.30	1.3	20.3	17.5	18.3
	10	11.00	8.4	20.0	17.5	17.4
	10	13.00	15.3	19.4	17.8	17.5
	10	16.00	17.4	19.8	18.2	17.9
30/5/92	11					
31/5/92	12					
1/6/92	13	7.30				
	13	11.00				
	13	13.00	2.2	20.0	18.0	18.0
	13	16.00	13.2	19.8	17.3	17.0
2/6/92	14	7.30	17.3	19.7	17.5	16.9
	14	11.00	19.5	19.9	17.7	17.4
	14	13.00		19.9	18.1	18.3
	14	16.00	15.4	19.7	18.1	17.9
3/6/92	15	7.30		18.3	18.3	19.3
	15	11.00	18.7	20.4	19.1	18.5
	15	13.00		19.9	18.5	18.6
	15	16.00	13.5	19.2	18.2	18.5

ANEXO 1 - TEMPERATURAS AMBIENTALES

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
4/6/92	16	7.30		19.3	19.9	19.8
	16	11.00		19.3	18.5	18.3
	16	13.00		20.4	17.8	17.9
	16	16.00	13.5	19.9	17.8	17.6
5/6/92	17	7.30	18.2	18.4	17.9	17.4
	17	11.00	16.3	20.3	19.2	19.2
	17	13.00	14.5	20.1	18.9	18.5
	17	16.00	16.3	20.3	19.1	20.2
6/6/92	18					
7/6/92	19					
8/6/92	20					
9/6/92	21	7.30	17.4	20.1	18.8	19.4
	21	11.00	15.3	19.8	19.6	20.1
	21	13.00		20.1	17.3	17.6
	21	16.00	11.2	19.5	17.3	17.6
10/6/92	22	7.30	14.2	19.5	17.3	17.3
	22	11.00	11.6	19.3	16.9	16.8
	22	13.00		20.2	19.4	19.1
11/6/92	23	7.30	13.6	19.6	19.4	18.8
	23	11.00	14.6	19.6	19.2	19.1
	23	13.00		20.4	18.6	18.6
	23	16.00	13.2	19.9	17.6	17.3
12/6/92	24	7.30	14.1	18.9	18.3	18.2
	24	11.00	12.9	19.9	19.6	19.7
	24	13.00		20.6	19.8	19.6
	24	16.00	13.6	19.6	19.9	19.9
13/6/92	25	7.30	14.6	19.8	19.9	19.6
	25	11.00	12.8	19.8	19.8	19.9
	25	13.00		21.1	20.9	20.8
	25	16.00	14.9	19.9	19.8	19.9
14/6/92	26	7.30	15.3	20.0	20.1	21.1
	26	11.00	15.1	21.3	20.1	20.3
	26	13.00	16.5	19.6	18.7	19.1
	26	16.00	16.7	19.4	19.1	18.7
15/6/92	27					
16/6/92	28	7.30	15.3	19.5	18.6	18.6
	28	11.00	15.9	19.3	18.7	18.8
	28	13.00	16.0	19.3	18.8	18.9
	28	16.00	13.6	19.6	18.8	18.8
17/6/92	29					
18/6/92	30	7.30	15.1	19.8	19.0	19.4
	30	11.00	18.3	20.4	19.1	19.1
	30	13.00	25.3	19.5	19.3	19.2
	30	16.00	23.6	19.3	19.4	19.1

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
19/6/92	31	7.30	14.9	19.9	19.2	19.1
	31	11.00	20.4	20.5	19.5	19.8
	31	13.00	22.5	19.5	19.9	19.7
	31	16.00	21.6	19.6	19.8	19.2
20/6/92	32	7.30	14.3	19.9	19.6	19.6
	32	11.00	19.7	18.6	19.7	19.8
	32	13.00	19.8	18.7	19.9	19.9
	32	16.00	18.7	18.3	18.7	19.1
21/6/92	33					
22/6/92	34	7.30	12.8	20.3	19.9	19.7
	34	11.00	14.4	19.8	18.8	18.7
	34	13.00	14.3	19.6	18.9	18.9
	34	16.00	13.8	19.7	19.1	19.9
23/6/92	35	7.30	11.1	20.4	19.6	19.6
	35	11.00	12.3	19.8	18.7	18.8
	35	13.00	12.6	19.6	19.7	19.6
	35	16.00	11.9	19.9	19.8	19.8
24/6/92	36	7.30	10.9	20.2	19.6	19.8
	36	11.00	11.4	19.9	19.3	19.6
	36	13.00	13.2	19.7	19.4	18.9
	36	16.00	13.7	19.9	19.9	19.1
25/6/92	37	7.30	19.3	19.8	19.5	19.5
	37	11.00	20.2	19.6	18.9	18.8
	37	13.00	20.1	19.8	19.7	19.7
	37	16.00	19.9	20.0	20.1	20.1
26/6/92	38	7.30	12.0	19.1	19.4	19.8
	38	11.00	13.2	19.2	19.2	19.1
	38	13.00	14.8	19.1	18.9	18.8
	38	16.00	14.6	19.3	19.8	19.2
27/6/92	39	7.30	2.5	20.1	18.3	18.4
	39	11.00	9.3	19.9	18.6	18.5
	39	13.00	10.1	19.9	18.8	18.6
	39	16.00	10.0	19.8	18.9	19.1
28/6/92	40					
29/6/92	41	7.30	7.8	20.3	18.1	18.3
	41	11.00	10.1	20.2	17.3	17.0
	41	13.00	13.1	19.3	17.0	17.5
30/6/92	42	7.30	8.4	20.3	18.6	18.3
	42	11.00	11.2	19.9	17.3	17.2
	42	13.00	13.5	19.4	17.3	17.3
1/7/92	43	7.30	4.9	19.5	17.5	17.5
	43	11.00	10.8	18.7	17.3	17.1
	43	13.00	11.6	18.3	17.2	17.2
	43	16.00	11.8	18.6	17.4	17.3

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
2/7/92	44	7.30	6.7	19.6	17.6	17.5
	44	11.00	11.3	18.9	17.5	17.6
	44	13.00	14.1	18.8	18.6	18.3
	44	16.00	12.6	19.7	18.8	18.8
3/7/92	45	7.30	5.9	19.3	17.0	17.2
	45	11.00	9.6	19.4	18.3	17.6
	45	13.00	11.8	19.2	18.1	17.9
	45	16.00	11.3	19.6	18.3	18.8
4/7/92	46	7.30	6.3	20.1	18.6	19.7
	46	11.00	9.6	19.9	18.3	18.6
	46	13.00	10.3	19.6	19.1	18.9
	46	16.00	9.2	19.8	20.1	19.9
5/7/92	47					
6/7/92	48	7.30	4.3	20.1	18.6	18.3
	48	11.00	8.8	18.9	16.5	16.7
	48	13.00	11.3	18.7	16.4	17.1
	48	16.00	10.9	18.8	17.2	18.1
7/7/92	49	7.30	3.3	20.3	19.8	19.9
	49	11.00	9.3	19.6	19.3	19.2
	49	13.00	11.2	19.8	18.3	18.6
	49	16.00	10.9	19.9	18.9	18.7
8/7/92	50	7.30	7.2	20.3	19.6	19.7
	50	11.00	9.8	19.3	18.1	18.3
	50	13.00	13.2	18.4	17.3	17.5
9/7/92	51	7.30	9.3	20.1	19.6	19.8
	51	11.00	11.4	19.7	17.3	17.1
	51	13.00	12.5	19.5	17.5	17.5
	51	16.00	12.6	19.8	18.6	18.7
10/7/92	52	7.30	9.4	20.4	19.5	19.8
	52	11.00	11.3	19.7	18.6	18.6
	52	13.00	13.4	19.1	18.3	18.7
	52	16.00	14.1	18.9	18.7	19.1
11/7/92	53					
12/7/92	54					
13/7/92	55	7.30	6.5	20.1	19.8	19.8
	55	11.00	8.3	19.6	19.5	19.6
	55	13.00	9.6	19.7	19.9	19.6
	55	16.00	9.2	19.9	18.6	18.7
14/7/92	56	7.30	6.5	19.9	18.1	18.2
	56	11.00	5.9	18.6	18.3	18.3
	56	13.00	6.2	18.3	18.1	18.2
	56	16.00	8.3	19.1	18.3	18.4
15/7/92	57	7.30	3.8	18.9	16.5	16.6
	57	11.00	5.3	18.6	16.3	16.3
	57	13.00	5.2	18.5	16.1	16.3
	57	16.00	5.8	18.8	16.4	16.3

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
16/7/92	58	7.30	3.1	17.9	14.8	14.1
	58	11.00	5.3	16.8	14.3	14.4
17/7/92	59	7.30	3.1	17.8	15.4	15.3
	59	11.00	4.3	16.3	15.1	15.1
	59	13.00	4.8	16.5	15.2	15.3
	59	18.00	6.3	16.9	16.8	16.1
18/7/92	60	7.30	7.8	18.9	17.0	19.7
19/7/92	61					
20/7/92	62	7.30	8.6	18.6	16.4	16.3
	62	11.00	10.1	17.3	15.8	15.8
	62	13.00	10.3	18.3	16.5	16.4
	62	16.00	10.0	18.9	18.8	16.9
21/7/92	63	7.30	3.1	18.9	16.8	16.9
	63	11.00	3.6	17.6	16.5	16.3
	63	13.00	7.8	17.8	16.4	16.3
	63	16.00	7.6	18.3	17.1	16.8
22/7/92	64	7.30	6.8	18.6	16.5	16.3
	64	11.00	8.9	17.8	16.1	16.1
	64	13.00	8.9	17.7	16.3	16.2
	64	16.00	8.6	17.9	16.5	16.6
23/7/92	65	7.30	3.2	17.8	15.5	15.3
	65	11.00	8.3	17.9	16.1	16.2
	65	13.00	9.6	18.1	16.1	16.3
	65	16.00	9.3	15.3	16.3	16.2
24/7/92	66	7.30	5.4	18.6	16.3	16.2
	66	11.00	6.3	18.9	16.4	16.3
	66	13.00	7.8	18.6	16.8	16.9
	66	16.00	7.6	18.3	16.7	16.5
25/7/92	67	7.30	5.3	18.7	15.9	16.0
	67	11.00	5.8	18.5	16.1	16.3
	67	13.00	7.8	18.3	16.1	16.2
	67	16.00	8.4	17.3		15.1
26/7/92	68					
27/7/92	69	7.30	3.4	18.3	15.4	15.6
	69	11.00	5.8	17.8	15.2	15.4
	69	13.00	9.6	17.5	15.5	15.6
	69	16.00	10.3	17.7	15.8	16.1
28/7/92	70	7.30	7.2	18.7	16.4	16.7
	70	11.00	9.2	18.6	16.4	16.6
	70	13.00	9.1	18.6	16.5	16.8
	70	16.00	8.9	18.8	16.3	16.7
29/7/92	71	7.30	8.3	18.8	16.5	16.8
	71	11.00	8.6	18.3	16.4	16.7
	71	13.00	9.3	17.9	16.9	16.7
	71	16.00	8.9	18.1	17.0	16.9

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
30/7/92	72	7.30	8.5	18.7	16.1	16.5
	72	11.00	9.3	18.5	16.3	16.3
	72	13.00	10.6	18.7	15.9	16.3
	72	16.00	9.6	18.1	16.1	16.2
31/7/92	73	7.30	5.3	19.3	16.4	16.5
	73	11.00	6.7	18.9	16.3	16.7
	73	13.00	10.9	18.8	16.0	16.8
	73	16.00	10.1	18.8	16.1	16.3
1/8/92	74	7.30	1.7	18.3	16.1	16.1
	74	11.00	5.6	18.1	16.2	16.2
	74	13.00	8.3	18.0	15.1	15.1
	74	16.00	8.1	16.1	16.5	16.5
2/8/92	75					
3/8/92	76	7.30	1.3	17.8	15.1	15.1
	76	11.00	3.6	17.6	15.2	15.2
	76	13.00	7.8	17.7	15.2	15.2
	76	16.00	6.9	18.0	15.3	15.3
4/8/92	77	7.30	1.5	17.3	15.0	15.0
	77	11.00	4.3	17.6	15.3	15.3
	77	13.00	8.6	17.6	15.4	15.4
	77	16.00	9.3	17.4	15.6	15.6
5/8/92	78	7.30	7.2	17.8	15.3	15.3
	78	11.00	9.6	17.6	15.3	15.3
	78	13.00	10.4	17.7	15.1	15.1
	78	16.00	11.6	17.6	15.2	15.2
6/8/92	79	7.30	9.3	18.3	16.4	16.4
	79	11.00	9.9	17.9	16.5	16.5
	79	13.00	10.3	17.8	16.3	16.3
	79	16.00	13.4	18.0	16.2	16.2
7/8/92	80	7.30	7.2	20.3	19.6	19.6
	80	11.00	7.4	18.6	16.9	16.9
	80	13.00	7.6	18.2	16.5	16.5
	80	16.00	7.9	18.0	16.3	16.3
8/8/92	81					
9/8/92	82					
10/8/92	83	7.30	7.9	18.9	16.7	16.7
	83	11.00	9.8	17.9	16.5	16.5
	83	13.00	10.4	17.8	16.6	16.6
	83	16.00	10.8	18.1	16.1	16.1
11/8/92	84	7.30	9.6	19.6	17.2	18.9
	84	11.00	10.1	19.6	18.3	18.6
	84	13.00	13.3	19.3	17.6	18.7
	84	16.00	13.5	19.8	18.5	18.7
12/8/92	85	7.30	8.6	20.3	18.6	19.1
	85	11.00	10.2	19.9	18.3	19.6
	85	13.00	11.4	19.8	18.0	19.5
	85	16.00	12.6	20.0	18.5	19.6

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
13/8/92	86	7.30	9.8	21.1	17.6	18.1
	86	11.00	10.3	19.9	17.8	18.0
	86	13.00	11.5	19.8	17.9	18.3
	86	18.00	14.6	19.9	17.9	18.2
14/8/92	87	7.30	8.3	20.9	19.9	19.8
	87	11.00	10.1	20.0	19.8	19.7
	87	13.00	12.3	20.1	19.6	19.8
	87	18.00	13.6	20.3	19.6	19.8
15/8/92	88	7.30	7.3	19.9	17.9	17.3
	88	11.00	9.9	19.8	17.8	17.4
	88	13.00	11.6	19.9	17.6	17.5
	88	18.00	14.6	20.0	17.7	17.5
16/8/92	89					
17/8/92	90	7.30	7.9	20.1	18.9	18.8
	90	11.00	10.3	20.1	18.6	18.9
	90	13.00	14.3	20.3	18.7	18.6
	90	16.00	16.4	20.1	18.7	18.8
18/8/92	91	7.30	9.7	19.6	17.3	17.1
	91	11.00	11.3	19.3	17.1	17.5
	91	13.00	12.0	19.9	17.6	17.6
	91	16.00	13.2	19.5	17.4	17.6
19/8/92	92	7.30	8.6	19.2	18.7	18.8
	92	11.00	9.4	19.5	18.5	18.9
	92	13.00	11.3	19.3	18.6	18.8
	92	16.00	15.3	19.5	18.6	18.7
20/8/92	93	7.30	7.6	19.9	17.9	17.9
	93	11.00	10.0	19.6	17.7	17.9
	93	13.00	11.6	19.8	17.8	18.1
	93	16.00	14.3	19.9	17.6	18.0
21/8/92	94	7.30	11.3	18.7	17.6	18.1
	94	11.00	14.3	18.6	17.4	17.6
	94	13.00	19.6	18.8	17.6	17.7
	94	16.00	19.3	18.9	17.5	17.8
22/8/92	95	7.30	6.4	18.3	16.4	17.2
	95	11.00	7.6	18.8	17.1	16.9
	95	13.00	7.1	18.1	16.9	17.1
	95	16.00	8.0	18.3	16.8	16.9
23/8/92	96					
24/8/92	97					
25/8/92	98	7.30	8.2	17.3	16.1	16.5
	98	11.00	10.6	17.2	16.4	16.7
	98	13.00	16.9	16.9	15.7	15.9
	98	16.00	17.6	17.1	16.0	16.2
26/8/92	99	7.30	9.3	17.4	16.2	16.4
	99	11.00	11.3	17.6	16.4	17.1
	99	13.00	15.4	17.3	16.4	16.9
	99	16.00	18.9	17.2	16.5	16.8

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
27/8/92	100	7.30	10.1	17.8	16.2	16.5
	100	11.00	13.4	17.6	16.1	16.3
	100	13.00	14.6	17.1	15.9	16.1
	100	16.00	16.8	17.3	16.0	16.4
28/8/92	101	7.30	10.2	18.9	18.0	18.4
	101	11.00	11.4	18.6	17.8	18.0
	101	13.00	11.6	18.8	18.1	18.3
	101	16.00	11.1	18.7	18.1	18.2
29/8/92	102	7.30	10.9	18.6	18.1	18.3
	102	11.00	13.4	18.4	17.5	17.9
	102	13.00	13.6	18.3	17.9	18.1
	102	16.00	12.8	18.6	17.9	18.0
30/8/92	103					
31/8/92	104	7.30	7.6	18.3	17.9	17.8
	104	11.00	8.1	18.2	17.8	17.9
	104	13.00	8.9	17.9	17.6	17.6
	104	16.00	9.2	18.0	17.9	17.8
1/9/92	105	7.30	8.6	18.2	17.9	18.0
	105	11.00	11.1	18.6	17.0	16.8
	105	13.00	11.4	18.3	17.8	17.9
	105	16.00	11.2	18.4	17.6	17.8
2/9/92	106	7.30	7.8	18.9	17.3	17.8
	106	11.00	11.1	18.7	16.8	17.0
	106	13.00	12.8	17.9	17.0	16.9
	106	16.00	11.9	18.0	16.9	17.3
3/9/92	107	7.30	6.8	17.9	16.4	17.0
	107	11.00	9.9	17.6	16.9	17.1
	107	13.00	10.0	17.8	17.0	17.1
	107	16.00	12.2	17.7	16.8	17.3
4/9/92	108	7.30	6.9	17.8	16.4	16.9
	108	11.00	10.1	17.6	16.6	16.8
	108	13.00	13.6	17.4	16.8	17.0
	108	16.00	15.6	17.9	17.0	17.1
5/9/92	109	7.30	9.3	17.9	16.9	17.1
	109	11.00	10.4	18.0	16.7	17.3
	109	13.00	14.3	18.2	16.9	17.1
	109	16.00	17.4	17.9	17.1	17.1
6/9/92	110					
7/9/92	111	7.30	6.9	18.0	17.6	17.8
	111	11.00	11.9	18.2	17.6	17.9
	111	13.00	15.6	18.1	17.8	18.1
	111	16.00	17.8	18.4	17.7	18.3
8/9/92	112	7.30	9.3	17.4	16.2	16.8
	112	11.00	11.6	17.6	16.4	17.0
	112	13.00	14.3	17.8	16.3	17.2
	112	16.00	16.9	17.8	16.4	17.0

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
9/9/92	113	7.30	9.3	18.1	17.8	17.6
	113	11.00	16.8	18.3	17.9	17.9
	113	13.00	17.4	18.0	17.6	17.2
	113	16.00	16.3	18.1	17.9	17.9
10/9/92	114	7.30	11.4	19.1	18.6	18.6
	114	11.00	19.1	19.1	18.5	18.4
	114	13.00	22.2	19.2	18.7	18.5
	114	16.00	24.3	18.9	18.6	18.3
11/9/92	115	7.30	19.4	19.6	18.4	18.6
	115	11.00	21.6	18.5	18.5	18.6
	115	13.00	20.9	18.7	18.5	18.5
	115	16.00	21.2	18.9	18.8	19.0
12/9/92	116	7.30	8.6	17.6	17.4	17.2
	116	11.00	9.9	17.3	16.2	17.1
	116	13.00	11.4	17.3	16.4	17.0
	116	16.00	11.6	17.4	16.9	17.3
13/9/92	117					
14/9/92	118	7.30	9.6	18.4	16.9	17.9
	118	11.00	16.4	18.6	16.4	17.6
	118	13.00	18.6	18.3	16.1	17.8
	118	16.00	21.1	18.4	16.6	17.8
15/09/92	119	7.30	10.9	18.9	18.1	18.7
	119	11.00	16.4	18.6	18	18.5
	119	13.00	20.2	18.4	17.9	18
	119	16.00	22.4	18.6	18.2	18.3
16/09/92	120	7.30	9.1	18.3	16.4	17.8
	120	11.00	15.6	18.6	16.8	17.6
	120	13.00	17.4	18.5	16.6	17.7
	120	16.00	20.1	18.5	16.9	17.7
17/09/92	121	7.30	9.4	18.4	16.7	17.9
	121	11.00	12.6	18	16.9	17.6
	121	13.00	12.4	18.3	16.6	17.7
	121	16.00	11.9	18.3	16.8	17.8
18/09/92	122	7.30	7.4	18.6	17.4	18
	122	11.00	10.2	18.3	17.2	18.1
	122	13.00	11.6	18.4	16.9	18.3
	122	16.00	11.9	18.6	17.1	18.1
19/09/92	123	7.30	6.4	17.4	16.1	17.5
	123	11.00	9.8	17.6	16.3	17.7
	123	13.00	16.4	17.6	16.4	17.6
	123	16.00	16.6	17.3	16.6	17.6
21/09/92	125	7.30	11.1	19.2	17.1	18.6
	125	11.00	13.2	19.1	17.3	18.4
	125	13.00	14.6	19.1	17.3	18.8
	125	16.00	15.4	19	17.4	18.8

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
22/09/92	126	7.30	9.6	18.6	16.3	17.9
	126	11.00	11.3	18.3	16.6	17.4
	126	13.00	14.3	18.6	16.2	17.8
	126	16.00	17.9	18.5	16.5	17.9
23/09/92	127	7.30	7.4	18.2	16.1	17.4
	127	11.00	13.6	18.4	16.6	17
	127	13.00	16.4	18.1	16.3	17.1
	127	16.00	17.1	18.3	16.4	17.6
24/09/92	128	7.30	9.9	17.9	16.9	17.3
	128	11.00	13.6	17.8	17	17.4
	128	13.00	14.5	18	17.3	17.5
	128	16.00	15	17.9	17.2	17.4
25/09/92	129	7.30	7.2	17.8	16.3	17.2
	129	11.00	10.2	18.1	16.6	17.5
	129	13.00	13.6	18	16.7	17.6
	129	16.00	15.2	17.9	16.8	17.5
26/09/92	130	7.30	6.4	17.3	15.8	16.6
-	130	11.00	8.5	17.6	16	16.9
	130	13.00	10.1	17.9	16.2	17.2
	130	16.00	12.6	17.8	16.4	17.1
28/09/92	132	7.30	13.1	19	17.3	17.3
	132	11.00	15.4	18.6	16.2	17.1
	132	13.00	16.9	18.7	16.4	17.2
	132	16.00	16.6	18.6	16.9	17.6
29/09/92	133	7.30	12.4	18.6	18.1	18.4
	133	11.00	23.7	19	18.7	18.1
	133	13.00	25.3	18.9	18.6	18.3
	133	16.00	27.7	19.2	19.6	18.9
30/09/92	134	7.30	13.7	19.2	18.8	18.9
	134	11.00	24.5	18.6	19.6	19.2
	134	13.00	26.4	18.9	19.1	19
	134	16.00	28.3	19	19.2	18.6
01/10/92	135	7.30	18.6	19.1	18.9	19.3
	135	11.00	23.2	18.9	18.6	19.5
	135	13.00	30.5	19.6	20	19.7
	135	16.00	29.2	19.8	19.9	19.6
02/10/92	136	7.30	15.1	18.6	18.4	18.6
	136	11.00	19.6	19.3	18.9	18.8
	136	13.00	23.2	18.9	19.2	18.7
	136	16.00	26.2	19.1	19	18.6
03/10/92	137	7.30	11.2	19.4	19	19.1
	137	11.00	16.6	19.3	19.1	19
	137	13.00	18.3	19.6	19.3	19.3
	137	16.00	22.3	19.5	19.1	19.1
05/10/92	139	7.30	11.6	19.1	18.7	19.2
	139	11.00	14.8	19.2	18.9	19.2
	139	13.00	14.2	19	18.6	19.1
	139	16.00	13.9	19	18.6	19

TABLA Nro. 290 - SISTEMA "PILAR"
TEMPERATURA (cont.)

FECHA	DIA OPERATIVO	HORA	TEMPERATURA			
			AMBIENTE °C	CRUDO °C	ZANJA °C	EFLUENTE °C
06/10/92	140	7.30	9.3	18.7	16.9	18.3
	140	11.00	11.2	18.5	16.3	18
	140	13.00	13.8	18.6	17	18.3
	140	16.00	17.6	18.7	17.2	18.6
07/10/92	141	- 7.30	10.2	19	18.9	18.6
	141	11.00	13.4	19.2	19.1	19
	141	13.00	16.4	19.3	19	19
	141	16.00	18.3	18.9	19.3	18.7
08/10/92	142	7.30	9.9	19.1	18.7	18.9
	142	11.00	11.4	18.9	18.3	18.8
	142	13.00	13.9	19	18.8	19.1
	142	16.00	15.7	19	18.9	19

TABLA Nro. 291 - SISTEMA "PILAR"
TEMPERATURA MEDIA DIARIA DIURNA

FECHA	DIA OPERATIVO	TEMPERATURA			
		AMBIENTE MEDIA °C	CRUDO MEDIA °C	ZANJA MEDIA °C	EFLUENTE MEDIA °C
20/5/92	1	11.5	17.7	15.9	15.3
21/5/92	2	12.9	20.4	18.5	18.4
22/5/92	3	12.1	20.2	18.7	18.7
23/5/92	4	9.9	20.0	18.5	18.3
26/5/92	7	16.7	22.0	20.5	20.1
27/5/92	8	10.7	20.5	18.3	18.5
28/5/92	9	9.5	20.5	17.8	17.7
29/5/92	10	10.6	19.9	17.8	17.8
1/6/92	13	7.7	19.9	17.7	17.5
2/6/92	14	17.4	19.8	17.9	17.6
3/6/92	15	16.1	19.5	18.5	18.7
4/6/92	16	13.5	19.7	18.5	18.4
5/6/92	17	16.3	19.8	18.8	18.8
9/6/92	21	14.6	19.9	18.3	18.7
10/6/92	22	12.9	19.7	17.9	17.7
11/6/92	23	13.8	19.9	18.7	18.5
12/6/92	24	13.5	19.8	19.4	19.4
13/6/92	25	14.1	20.2	20.1	20.1
14/6/92	26	15.9	20.1	19.5	19.8
16/6/92	28	15.2	19.4	18.7	18.8
18/6/92	30	20.6	19.8	19.2	19.2
19/6/92	31	19.9	19.9	19.6	19.5
20/6/92	32	18.1	18.9	19.5	19.6
22/6/92	34	13.8	19.9	19.2	19.3
23/6/92	35	12.0	19.9	19.5	19.5
24/6/92	36	12.3	19.9	19.6	19.4
25/6/92	37	19.9	19.8	19.6	19.5
26/6/92	38	13.7	19.2	19.3	19.2
27/6/92	39	8.0	19.9	18.7	18.7
29/6/92	41	10.3	19.9	17.5	17.6
30/6/92	42	11.0	19.9	17.7	17.6
1/7/92	43	9.8	18.8	17.4	17.3
2/7/92	44	11.2	19.3	18.1	18.1
3/7/92	45	9.7	19.4	17.9	17.9
4/7/92	46	8.9	19.9	19.0	19.3
6/7/92	48	8.8	19.1	17.2	17.6
7/7/92	49	8.7	19.9	19.1	19.1
8/7/92	50	10.1	19.3	18.3	18.5
9/7/92	51	11.5	19.8	18.3	18.3
10/7/92	52	12.1	19.5	18.8	19.1

TABLA Nro. 291 - SISTEMA "PILAR"
TEMPERATURA MEDIA DIARIA DIURNA (cont.)

FECHA	DIA OPERATIVO	TEMPERATURA			
		AMBIENTE MEDIA °C	CRUDO MEDIA °C	ZANJA MEDIA °C	EFLUENTE MEDIA °C
13/7/92	55	8.4	19.8	19.5	19.4
14/7/92	56	6.7	19.0	18.2	18.3
15/7/92	57	5.0	18.7	16.3	16.4
16/7/92	58	4.2	17.4	14.6	14.3
17/7/92	59	4.6	16.9	15.6	15.5
18/7/92	60	7.8	18.9	17.0	19.7
20/7/92	62	9.8	18.3	16.9	16.4
21/7/92	63	5.5	18.2	16.7	16.6
22/7/92	64	8.3	18.0	16.4	16.3
23/7/92	65	7.6	17.3	16.0	16.0
24/7/92	66	6.8	18.6	16.6	16.5
25/7/92	67	6.8	18.2	16.0	15.9
27/7/92	69	7.3	17.8	15.5	15.7
28/7/92	70	8.6	18.7	16.4	16.7
29/7/92	71	8.8	18.3	16.7	16.8
30/7/92	72	9.5	18.5	16.1	16.3
31/7/92	73	8.3	19.0	16.2	16.6
1/8/92	74	5.9	17.6	16.0	16.0
3/8/92	76	4.9	17.8	15.2	15.2
4/8/92	77	5.9	17.5	15.3	15.3
5/8/92	78	9.7	17.7	15.2	15.2
6/8/92	79	10.7	18.0	16.4	16.4
7/8/92	80	7.5	18.8	17.3	17.3
10/8/92	83	9.7	18.2	16.5	16.5
11/8/92	84	11.6	19.6	17.9	18.7
12/8/92	85	10.7	20.0	18.4	19.5
13/8/92	86	11.6	20.2	17.8	18.2
14/8/92	87	11.1	20.3	19.7	19.8
15/8/92	88	10.9	19.9	17.8	17.4
17/8/92	90	12.2	20.2	18.7	18.8
18/8/92	91	11.6	19.6	17.4	17.5
19/8/92	92	11.2	19.4	18.6	18.8
20/8/92	93	10.9	19.8	17.8	18.0
21/8/92	94	16.1	18.8	17.5	17.8
22/8/92	95	7.3	18.4	16.8	17.0
25/8/92	98	13.3	17.1	16.1	16.3
26/8/92	99	13.7	17.4	16.4	16.8
27/8/92	100	13.7	17.5	16.1	16.3
28/8/92	101	11.1	18.8	18.0	18.2

TABLA Nro. 291 - SISTEMA "PILAR"
TEMPERATURA MEDIA DIARIA DIURNA (cont.)

FECHA	DIA OPERATIVO	TEMPERATURA			
		AMBIENTE MEDIA °C	CRUDO MEDIA °C	ZANJA MEDIA °C	EFLUENTE MEDIA °C
29/8/92	102	12.7	18.5	17.9	18.1
31/8/92	104	8.5	18.1	17.8	17.8
1/9/92	105	10.6	18.4	17.6	17.6
2/9/92	106	10.9	18.4	17.0	17.3
3/9/92	107	9.7	17.8	16.8	17.1
4/9/92	108	11.6	17.7	16.7	17.0
5/9/92	109	12.9	18.0	16.9	17.2
7/9/92	111	13.1	18.2	17.7	18.0
8/9/92	112	13.0	17.7	16.3	17.0
9/9/92	113	15.0	18.1	17.8	17.7
10/9/92	114	19.3	19.1	18.6	18.5
11/9/92	115	20.8	18.9	18.6	18.7
12/9/92	116	10.4	17.4	16.7	17.2
14/9/92	118	16.4	18.4	16.5	17.8
15/09/92	119	17.5	18.6	18.1	18.4
16/09/92	120	15.6	18.5	16.7	17.7
17/09/92	121	11.6	18.3	16.8	17.6
18/09/92	122	10.3	18.5	17.2	18.1
19/09/92	123	12.3	17.5	16.4	17.6
21/09/92	125	13.6	19.1	17.3	18.7
22/09/92	126	13.3	18.5	16.4	17.8
23/09/92	127	13.6	18.3	16.4	17.3
24/09/92	128	13.3	17.9	17.1	17.4
25/09/92	129	11.6	18.0	16.6	17.5
26/09/92	130	9.4	17.7	16.1	17.0
28/09/92	132	15.5	18.7	16.7	17.3
29/09/92	133	22.3	18.9	18.8	18.4
30/09/92	134	23.2	18.9	19.2	18.9
01/10/92	135	25.4	19.4	19.4	19.5
02/10/92	136	21.0	19.0	18.9	18.7
03/10/92	137	17.1	19.5	19.1	19.1
05/10/92	139	13.6	19.1	18.7	19.1
06/10/92	140	13.0	18.6	16.9	18.3
07/10/92	141	14.6	19.1	19.1	18.8
08/10/92	142	12.7	19.0	18.7	19.0

TABLA Nro. 292 - SISTEMA PILAR
TEMPERATURAS MEDIAS SEMANALES DIURNAS

TEMPERATURA	
AMBIENTE MEDIA °C	EFLUENTE MEDIA °C
12.9	18.7
11.2	17.9
15.5	18.7
14.4	19.1
16.9	19.4
12.7	18.8
9.5	18.2
9.7	18.7
6.1	16.2
7.6	16.2
7.2	16.0
9.9	16.8
11.3	18.5
11.8	17.6
11.7	17.5
11.9	17.3
16.5	18.0
12.8	17.9
14.3	17.5
18.9	18.9
13.7	18.9

TABLA Nro. 293 - SISTEMA "PILAR"

pH

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
21/5/92	2	7.30	7.6	8.0	7.9
	2	11.00	8.3	8.0	7.9
	2	13.00	8.1	8.1	8.0
	2	16.00	8.0	8.0	8.0
22/5/92	3	7.30	7.7	7.9	7.8
	3	11.00	8.3	8.1	8.1
	3	13.00	8.2	8.1	8.1
	3	16.00	8.2	8.1	8.1
23/5/92	4	7.30	7.8	7.9	8.0
	4	11.00	8.3	8.0	8.2
	4	13.00	8.1	8.1	8.2
	4	16.00	8.1	8.1	8.1
24/5/92	5				
25/5/92	6				
26/5/92	7	7.30	7.8	8.0	8.0
	7	11.00	8.2	8.1	8.0
	7	13.00	8.2	8.1	8.1
	7	16.00	8.1	8.1	8.1
27/5/92	8	7.30	7.8	7.7	7.9
	8	11.00	8.2	8.2	8.1
	8	13.00	8.1	8.2	8.1
	8	16.00	8.0	8.2	8.1
28/5/92	9	7.30	7.7	8.0	7.9
	9	11.00	8.4	8.2	8.0
	9	13.00	8.2	8.0	8.0
	9	16.00	8.0	8.1	8.0
29/5/92	10	7.30	7.7	7.9	7.9
	10	11.00	8.2	8.1	8.0
	10	13.00	8.3	8.1	8.1
	10	16.00	8.2	8.2	8.2
30/5/92	11				
31/5/92	12				
1/6/92	13	7.30	7.8	8.1	8.0
	13	11.00	8.7	8.2	8.2
	13	13.00	8.6	8.0	8.2
	13	16.00	8.1	8.0	8.1
2/6/92	14	7.30	7.7	8.0	8.0
	14	11.00	8.2	8.2	8.1
	14	13.00	8.0	8.0	8.1
3/6/92	15	7.30	7.7	8.0	8.0
	15	11.00	8.3	8.1	8.0
	15	13.00	8.2	7.9	8.1
	15	16.00	7.9	7.6	8.0

TABLA Nro. 293 - SISTEMA "PILAR"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
4/6/92	16	7.30	7.7	8.0	7.9
	16	11.00	8.2	8.2	8.1
	16	13.00	8.4	8.1	8.1
	16	16.00	8.0	8.0	7.9
5/6/92	17	7.30	7.7	7.9	7.9
	17	11.00	7.8	7.9	7.9
	17	13.00	7.9	8.0	8.2
	17	16.00	8.0	8.0	8.1
6/6/92	18				
7/6/92	19				
8/6/92	20				
9/6/92	21	7.30	8.0	7.8	7.8
	21	11.00	8.2	8.1	7.8
	21	13.00	8.3	8.0	7.9
	21	16.00	8.3	8.1	7.8
10/6/92	22	7.30	8.0	7.9	7.8
	22	11.00	8.1	8.0	8.0
	22	13.00	8.1	8.1	7.8
11/6/92	23	7.30	8.0	9.0	7.9
	23	11.00	8.2	8.1	8.1
	23	13.00	8.0	8.1	8.0
	23	16.00	8.0	8.7	8.0
12/6/92	24	7.30	8.1	8.1	8.0
	24	11.00	8.0	8.0	8.0
	24	13.00	8.0	8.1	7.8
	24	16.00	7.9	8.0	8.0
13/6/92	25	7.30	8.2	8.1	7.8
	25	11.00	8.1	8.0	8.0
	25	13.00	7.9	8.0	8.0
	25	16.00	8.0	8.0	7.9
14/6/92	26	7.30	7.9	7.4	7.9
	26	11.00	7.9	8.0	7.9
	26	13.00	8.0	7.7	8.0
	26	16.00	8.0	7.5	7.9
15/6/92	27				
16/6/92	28	7.30	7.6	7.5	7.4
	28	11.00	7.9	7.8	7.5
	28	13.00	7.9	7.8	8.0
	28	16.00	7.9	7.8	8.1
17/6/92	29				
18/6/92	30	7.30	7.8	7.8	7.7
	30	11.00	8.0	7.9	8.0
	30	13.00	7.8	7.9	8.0
	30	16.00	8.0	8.0	8.0

TABLA Nro. 293 - SISTEMA "PILAR"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
19/6/92	31	7.30	7.9	7.9	8.0
	31	11.00	8.0	7.8	7.8
	31	13.00	8.9	7.9	7.9
	31	16.00	8.1	7.9	7.8
20/6/92	32	11.00	7.1	7.8	7.8
	32	13.00	7.2	7.5	7.9
	32	16.00	7.5	7.8	8.0
21/6/92	33				
22/6/92	34	7.30	8.1	8.0	8.0
	34	11.00	8.0	7.9	7.8
	34	13.00	8.0	8.0	8.0
	34	16.00	8.1	8.1	8.0
23/6/92	35	7.30	8.0	8.0	7.9
	35	11.00	7.9	8.0	8.0
	35	13.00	7.8	8.0	8.0
	35	16.00	8.0	8.0	8.1
24/6/92	36	7.30	8.0	8.0	8.0
	36	11.00	8.0	8.0	7.8
	36	13.00	8.0	8.1	8.0
	36	16.00	7.6	8.0	8.0
25/6/92	37	7.30	7.5	8.0	7.8
	37	11.00	7.8	8.0	8.0
	37	13.00	7.9	8.0	8.0
	37	16.00	8.0	8.0	8.0
26/6/92	38	7.30	7.7	7.8	7.8
	38	11.00	7.8	8.0	8.0
	38	13.00	7.9	8.0	7.9
	38	16.00	7.8	7.8	8.0
27/6/92	39	7.30	8.1	7.9	7.8
	39	11.00	8.1	8.0	8.0
	39	13.00	8.0	8.0	8.0
	39	16.00	8.0	8.0	8.0
28/6/92	40				
29/6/92	41	7.30	8.0	8.1	8.2
	41	11.00	8.4	8.1	8.0
	41	13.00	8.3	8.3	8.1
30/6/92	42	7.30	8.1	7.9	8.0
	42	11.00	8.3	8.1	8.0
	42	13.00	8.1	8.0	8.0
1/7/92	43	7.30	7.8	7.9	7.8
	43	11.00	8.9	8.1	8.0
	43	13.00	8.3	8.0	8.0
	43	16.00	8.0	8.0	8.0

TABLA Nro. 293 - SISTEMA "PILAR"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
2/7/92	44	7.30	7.7	8.0	8.0
	44	11.00	7.9	8.0	8.0
	44	13.00	8.0	8.0	8.0
	44	16.00	8.1	8.2	8.0
3/7/92	45	7.30	7.7	7.9	7.9
	45	11.00	7.8	8.0	8.1
	45	13.00	7.9	8.0	8.0
	45	16.00	8.0	8.0	8.1
4/7/92	46	7.30	8.1	8.1	8.1
	46	11.00	8.0	8.0	8.0
	46	13.00	7.9	8.0	8.0
	46	16.00	8.0	8.0	8.0
5/7/92	47				
6/7/92	48	7.30	8.0	8.1	8.1
	48	11.00	8.4	8.0	8.1
	48	13.00	8.1	8.0	8.0
	48	16.00	8.1	8.0	8.2
7/7/92	49	7.30	8.4	8.1	8.1
	49	11.00	8.1	8.0	8.0
	49	13.00	7.9	8.0	8.1
	49	16.00	8.0	8.1	8.1
8/7/92	50	7.30	8.3	8.2	8.2
	50	11.00	8.0	8.1	8.0
	50	13.00	8.0	8.0	8.2
9/7/92	51	7.30	8.2	8.0	8.0
	51	11.00	8.1	8.2	8.0
	51	13.00	8.0	8.2	8.0
	51	16.00	8.0	8.3	8.0
10/7/92	52	7.30	7.3	8.0	8.0
	52	11.00	8.0	8.0	7.9
	52	13.00	7.3	8.1	8.2
	52	16.00	8.0	8.0	8.1
11/7/92	53				
12/7/92	54				
13/7/92	55	7.30	8.2	8.2	8.0
	55	11.00	8.0	8.0	8.1
	55	13.00	8.0	8.0	7.9
	55	16.00	8.0	8.0	7.9
14/7/92	56	7.30	7.2	8.0	8.2
	56	11.00	8.0	8.1	8.0
	56	13.00	7.9	8.1	8.2
	56	16.00	8.0	8.0	8.0
15/7/92	57	7.30	7.7	7.8	7.8
	57	11.00	8.0	8.0	8.0
	57	13.00	7.9	7.9	7.8
	57	16.00	8.0	8.2	8.3

TABLA Nro. 293 - SISTEMA "PILAR"

pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
16/7/92	58	7.30	7.2	7.3	7.9
	58	11.00	7.3	8.0	7.9
17/7/92	59	7.30	7.9	7.9	8.0
	59	11.00	8.0	8.0	8.0
	59	13.00	8.2	8.0	7.8
	59	16.00	8.0	7.2	7.9
18/7/92	60	7.30	8.1	8.0	7.2
19/7/92	61				
20/7/92	62	7.30	8.2	8.09	8.2
	62	11.00	8.0	8.0	7.9
	62	13.00	7.4	8.0	8.0
	62	16.00	8.0	8.0	8.0
21/7/92	63	7.30	7.8	7.9	8.0
	63	11.00	7.9	8.0	7.9
	63	13.00	8.1	8.1	8.0
	63	16.00	8.1	8.1	8.0
22/7/92	64	7.30	7.9	7.9	7.9
	64	11.00	7.8	8.0	8.0
	64	13.00	8.1	8.2	8.1
	64	16.00	8.0	8.0	8.0
23/7/92	65	7.30	7.2	7.3	7.9
	65	11.00	7.9	7.9	7.9
	65	13.00	7.8	8.0	8.0
	65	16.00	7.9	8.0	8.0
24/7/92	66	7.30	7.7	7.9	7.9
	66	11.00	7.8	8.0	7.9
	66	13.00	8.0	8.0	8.1
	66	16.00	7.9	7.8	8.0
25/7/92	67	7.30	7.9	7.8	7.8
	67	11.00	7.2	8.0	7.9
	67	13.00	7.9	8.1	8.0
	67	16.00	7.9	8.2	8.0
26/7/92	68				
27/7/92	69	7.30	7.3	7.8	7.9
	69	11.00	7.2	7.8	8.0
	69	13.00	7.8	7.9	8.0
	69	16.00	8.2	8.0	8.0
28/7/92	70	7.30	7.7	7.8	7.8
	70	11.00	8.7	7.8	7.8
	70	13.00	8.0	8.0	8.0
	70	16.00	7.9	8.6	8.0
29/7/92	71	7.30	7.9	7.3	7.6
	71	11.00	7.8	7.9	8.0
	71	13.00	8.0	8.0	8.0
	71	16.00	8.0	7.9	8.0

TABLA Nro. 293 - SISTEMA "PILAR"

pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
30/7/92	72	7.30	7.2	8.0	7.9
	72	11.00	7.3	8.0	8.0
	72	13.00	7.2	7.9	8.0
	72	16.00	7.9	7.9	8.0
31/7/92	73	7.30	7.8	8.0	7.2
	73	11.00	7.8	8.1	8.0
	73	13.00	7.9	8.2	8.0
	73	16.00	8.0	8.0	8.0
1/8/92	74	7.30	7.2	8.0	7.3
	74	11.00	7.8	8.0	7.8
	74	13.00	7.4	8.0	7.9
	74	16.00	7.9	8.0	8.0
2/8/92	75				
3/8/92	76	7.30	7.2	7.2	7.4
	76	11.00	7.2	7.4	7.2
	76	13.00	7.8	7.5	7.5
	76	16.00	7.9	8.0	8.0
4/8/92	77	7.30	7.1	7.4	7.2
	77	11.00	7.8	7.2	7.4
	77	13.00	7.8	7.5	7.8
	77	16.00	8.0	8.0	7.9
5/8/92	78	7.30	7.8	8.2	8.0
	78	11.00	7.8	8.2	7.9
	78	13.00	7.9	8.0	8.0
	78	16.00	8.0	8.0	7.9
6/8/92	79	7.30	8.0	8.0	8.2
	79	11.00	8.2	8.0	8.1
	79	13.00	8.1	8.0	8.2
	79	16.00	8.1	8.1	8.1
7/8/92	80	7.30	8.0	8.1	8.0
	80	11.00	8.0	8.0	8.1
	80	13.00	8.0	8.0	8.0
	80	16.00	8.0	7.9	8.0
8/8/92	81				
9/8/92	82				
10/8/92	83	7.30	8.2	8.1	8.2
	83	11.00	8.0	8.1	8.0
	83	13.00	8.0	8.0	7.6
	83	16.00	8.1	8.0	8.0
11/8/92	84	7.30	8.1	7.6	7.8
	84	11.00	8.1	8.0	8.0
	84	13.00	8.2	7.9	7.8
	84	16.00	8.1	8.0	7.1

TABLA Nro. 293 - SISTEMA "PILAR"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
12/8/92	85	7.30	7.3	8.0	8.0
	85	11.00	7.4	8.0	7.9
	85	13.00	7.6	8.1	8.0
	85	16.00	7.8	8.1	8.0
13/8/92	86	7.30	8.3	8.0	8.0
	86	11.00	8.2	8.1	8.1
	86	13.00	8.1	8.1	8.0
	86	16.00	8.2	8.5	8.1
14/8/92	87	7.30	8.0	8.0	8.0
	87	11.00	8.1	8.0	8.0
	87	13.00	8.1	8.0	8.0
	87	16.00	8.1	7.9	8.0
15/8/92	88	7.30	8.0	8.0	8.0
	88	11.00	8.1	8.0	8.0
	88	13.00	8.1	8.0	8.0
	88	16.00	8.0	8.0	8.0
16/8/92	89				
17/8/92	90	7.30	8.0	8.0	8.0
	90	11.00	8.0	8.0	8.0
	90	13.00	7.8	8.1	8.0
	90	16.00	7.9	7.9	8.0
18/8/92	91	7.30	8.0	8.0	8.0
	91	11.00	8.0	8.0	7.9
	91	13.00	8.0	8.0	7.9
	91	16.00	8.0	7.9	7.9
19/8/92	92	7.30	7.9	7.9	8.0
	92	11.00	7.9	7.8	8.0
	92	13.00	7.8	7.9	8.0
	92	16.00	7.9	8.0	8.0
20/8/92	93	7.30	8.2	8.0	8.1
	93	11.00	8.2	8.0	8.1
	93	13.00	8.1	8.0	8.0
	93	16.00	8.0	8.0	8.1
21/8/92	94	7.30	7.7	7.8	7.7
	94	11.00	7.9	7.9	7.4
	94	13.00	8.0	7.9	7.8
	94	16.00	8.0	7.9	7.9
22/8/92	95	7.30	7.3	7.3	7.5
	95	11.00	7.5	7.7	8.0
	95	13.00	8.0	8.0	8.0
	95	16.00	8.0	8.0	8.0
23/8/92	96				
24/8/92	97	7.30	7.6	7.7	7.7
	97	11.00	8.0	7.7	7.8
	97	13.00	8.0	8.0	8.0
	97	16.00	8.1	8.0	8.0

TABLA Nro. 293 - SISTEMA "PILAR"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
25/8/92	98	7.30	7.6	7.7	7.7
	98	11.00	8.0	7.7	7.8
	98	13.00	8.0	8.0	8.0
	98	16.00	8.1	8.0	8.0
26/8/92	99	7.30	7.7	7.6	7.9
	99	11.00	8.0	7.8	8.0
	99	13.00	8.0	8.0	8.0
	99	16.00	8.0	8.0	8.0
27/8/92	100	7.30	7.5	7.2	7.2
	100	11.00	7.9	7.5	7.8
	100	13.00	8.0	7.8	8.0
	100	16.00	7.9	8.0	8.0
28/8/92	101	7.30	7.5	7.7	7.6
	101	11.00	7.6	8.0	7.9
	101	13.00	8.0	7.9	8.0
	101	16.00	8.0	7.9	8.0
29/8/92	102	7.30	7.3	7.6	8.0
	102	11.00	7.8	8.0	8.0
	102	13.00	8.0	8.0	8.0
	102	16.00	8.0	8.1	8.1
31/8/92	104	7.30	7.4	7.9	7.8
	104	11.00	8.0	8.0	8.0
	104	13.00	8.0	8.2	8.0
	104	16.00	7.8	8.2	8.0
1/9/92	105	7.30	7.8	7.9	7.8
	105	11.00	7.6	7.7	7.5
	105	13.00	8.0	7.8	7.9
	105	16.00	7.9	7.9	8.0
2/9/92	106	7.30	7.3	7.7	7.6
	106	11.00	8.2	7.6	7.6
	106	13.00	8.0	7.7	7.7
	106	16.00	8.1	7.9	7.7
3/9/92	107	7.30	7.3	7.7	7.9
	107	11.00	7.8	7.8	8.0
	107	13.00	7.9	7.8	8.0
	107	16.00	8.1	7.9	8.1
4/9/92	108	7.30	7.5	7.2	7.5
	108	11.00	7.8	7.3	7.5
	108	13.00	7.6	7.3	7.6
	108	16.00	7.8	7.9	7.9
5/9/92	109	7.30	7.2	7.5	7.8
	109	11.00	7.4	8.0	8.0
	109	13.00	8.0	8.4	8.3
	109	16.00	8.1	8.4	8.4

TABLA Nro. 293 - SISTEMA "PILAR"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
6/9/92	110				
7/9/92	111	7.30	8.0	8.0	8.0
	111	11.00	8.2	8.0	8.0
	111	13.00	8.2	8.2	8.2
	111	16.00	8.2	8.2	8.3
8/9/92	112	7.30	8.2	8.4	8.1
	112	11.00	8.2	8.0	8.5
	112	13.00	8.1	8.1	8.5
	112	16.00	8.2	8.2	8.2
9/9/92	113	7.30	8.6	8.7	8.7
	113	11.00	8.7	8.5	8.6
	113	13.00	8.5	8.6	8.8
	113	16.00	8.5	8.8	8.7
10/9/92	114	7.30	9.1	8.9	8.8
	114	11.00	9.3	9.0	8.9
	114	13.00	9.0	8.9	8.3
	114	16.00	8.6	8.7	8.7
11/9/92	115	7.30	8.9	8.7	8.5
	115	11.00	8.6	8.6	8.7
	115	13.00	8.5	8.7	8.8
	115	16.00	8.7	8.6	8.8
12/9/92	116	7.30	8.4	8.2	8.9
	116	11.00	8.8	8.4	8.7
	116	13.00	8.5	8.5	8.9
	116	16.00	8.6	8.9	8.9
13/9/92	117				
14/9/92	118	7.30	8.4	8.4	8.2
	118	11.00	8.2	8.7	8.4
	118	13.00	8.5	8.3	8.4
	118	16.00	8.5	8.7	8.9
15/09/92	119	7.30	8.4	8.8	8.74
	119	11.00	8.39	8.92	8.89
	119	13.00	8.72	8.95	8.96
	119	16.00	8.95	8.74	8.83
16/09/92	120	7.30	8.43	8.72	8.21
	120	11.00	8.72	8.79	8.1
	120	13.00	8.26	8.26	8.31
	120	16.00	8.24	8.32	8.46
17/09/92	121	7.30	8.43	8.71	8.19
	121	11.00	8.56	8.63	8.42
	121	13.00	8.38	8.91	8.54
	121	16.00	8.78	8.86	8.34
18/09/92	122	7.30	8.36	8.21	8.32
	122	11.00	8.72	8.19	8.47
	122	13.00	8.21	8.28	8.7
	122	16.00	8.35	8.42	8.79

TABLA Nro. 293 - SISTEMA "PILAR"
pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
19/09/92	123	7.30	8.79	8.61	8.65
	123	11.00	8.46	8.52	8.71
	123	13.00	8.47	8.91	8.22
	123	16.00	8.51	8.95	8.31
21/09/92	125	7.30	7.99	8.99	8.77
	125	11.00	8.21	8.91	8.9
	125	13.00	8.56	8.86	8.89
	125	16.00	8.46	8.68	8.91
22/09/92	126	7.30	8.31	8.46	8.17
	126	11.00	8.41	8.91	8.31
	126	13.00	8.38	8.72	8.35
	126	16.00	8.46	8.34	8.76
23/09/92	127	7.30	8.46	8.31	8.71
	127	11.00	8.71	8.4	8.66
	127	13.00	8.69	8.55	8.73
	127	16.00	8.7	8.46	8.96
24/09/92	128	7.30	8.21	8.72	8.46
	128	11.00	8.34	8.69	8.51
	128	13.00	8.71	8.29	8.7
	128	16.00	8.47	8.36	8.69
25/09/92	129	7.30	8.71	8.49	8.56
	129	11.00	8.97	8.79	8.42
	129	13.00	8.79	8.95	9.01
	129	16.00	8.86	8.99	8.96
26/09/92	130	7.30	8.71	8.46	8.7
	130	11.00	8.62	8.55	8.78
	130	13.00	8.71	8.39	8.66
	130	16.00	8.65	8.45	8.6
28/09/92	132	7.30	8.97	9.01	8.93
	132	11.00	8.9	8.96	8.75
	132	13.00	8.93	8.96	8.86
	132	16.00	8.95	8.9	8.76
29/09/92	133	7.30	9.07	8.8	8.73
	133	11.00	8.8	8.75	8.76
	133	13.00	8.85	8.79	8.81
	133	16.00	8.79	8.74	8.78
30/09/92	134	7.30	8.45	8.86	8.9
	134	11.00	9.02	8.71	8.75
	134	13.00	8.96	8.8	8.91
	134	16.00	8.71	8.86	8.9
01/10/92	135	7.30	8.78	8.92	8.86
	135	11.00	8.82	8.9	8.91
	135	13.00	8.77	8.85	8.83
	135	16.00	8.87	8.79	8.91

TABLA Nro. 293 - SISTEMA "PILAR"

pH (cont.)

FECHA	DIA OPERATIVO	HORA	pH CRUDO	pH ZANJA	pH EFLUENTE
02/10/92	136	7.30	8.79	8.81	8.75
	136	11.00	8.62	8.75	8.54
	136	13.00	8.91	8.8	8.66
	136	16.00	8.89	8.7	8.77
03/10/92	137	7.30	8.61	8.95	8.86
	137	11.00	8.7	8.86	8.9
	137	13.00	8.76	8.85	8.79
	137	16.00	8.81	8.91	8.83
05/10/92	139	7.30	8.71	8.96	8.92
	139	11.00	8.91	8.99	8.86
	139	13.00	8.89	8.86	8.78
	139	16.00	8.8	8.79	8.81
06/10/92	140	7.30	8.46	8.71	8.8
	140	11.00	8.79	8.77	8.79
	140	13.00	8.75	8.91	8.9
	140	16.00	8.82	8.99	8.95
07/10/92	141	7.30	8.78	8.92	8.74
	141	11.00	8.7	8.89	8.61
	141	13.00	8.86	8.95	8.91
	141	16.00	8.89	8.9	8.93
08/10/92	142	7.30	8.7	8.91	8.89
	142	11.00	8.78	8.95	8.87
	142	13.00	8.9	8.93	8.91
	142	16.00	8.89	8.92	8.89

TABLA Nro. 294 - SISTEMA "PILAR"
pH MEDIO DIARIO

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH ZANJA MEDIO	pH EFLUENTE MEDIO
21/5/92	2	8.0	8.0	8.0
22/5/92	3	8.1	8.1	8.0
23/5/92	4	8.1	8.0	8.1
26/5/92	7	8.1	8.1	8.0
27/5/92	8	8.0	8.1	8.0
28/5/92	9	8.1	8.1	8.0
29/5/92	10	8.1	8.1	8.0
1/6/92	13	8.3	8.1	8.1
2/6/92	14	8.0	8.1	8.1
3/6/92	15	8.0	7.9	8.0
4/6/92	16	8.1	8.1	8.0
5/6/92	17	7.9	8.0	8.0
9/6/92	21	8.2	8.0	7.8
10/6/92	22	8.1	8.0	7.9
11/6/92	23	8.1	8.5	8.0
12/6/92	24	8.0	8.0	8.0
13/6/92	25	8.1	8.0	7.9
14/6/92	26	7.9	7.7	7.9
16/6/92	28	7.8	7.7	7.7
18/6/92	30	7.9	7.9	7.9
19/6/92	31	8.2	7.9	7.9
20/6/92	32	7.3	7.7	7.9
22/6/92	34	8.0	8.0	8.0
23/6/92	35	7.9	8.0	8.0
24/6/92	36	7.9	8.0	7.9
25/6/92	37	7.8	8.0	7.9
26/6/92	38	7.8	7.9	7.9
27/6/92	39	8.0	8.0	8.0
29/6/92	41	8.2	8.1	8.1
30/6/92	42	8.1	8.0	8.0
1/7/92	43	8.3	8.0	7.9
2/7/92	44	7.9	8.0	8.0
3/7/92	45	7.8	8.0	8.0
4/7/92	46	8.0	8.0	8.0
6/7/92	48	8.1	8.0	8.1
7/7/92	49	8.1	8.0	8.1
8/7/92	50	8.1	8.1	8.1
9/7/92	51	8.1	8.2	8.0

TABLA Nro. 294 - SISTEMA "PILAR"
pH MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH ZANJA MEDIO	pH EFLUENTE MEDIO
10/7/92	52	7.6	8.0	8.0
13/7/92	55	8.1	8.0	8.0
14/7/92	56	7.8	8.0	8.1
15/7/92	57	7.9	8.0	8.0
16/7/92	58	7.3	7.7	7.9
17/7/92	59	8.0	7.8	7.9
18/7/92	60	8.1	8.0	7.2
20/7/92	62	7.9	8.0	8.0
21/7/92	63	8.0	8.0	8.0
22/7/92	64	8.0	8.0	8.0
23/7/92	65	7.7	7.8	8.0
24/7/92	66	7.9	7.9	8.0
25/7/92	67	7.7	8.0	7.9
27/7/92	69	7.6	7.9	8.0
28/7/92	70	8.1	8.1	7.9
29/7/92	71	7.9	7.8	7.9
30/7/92	72	7.4	7.9	8.0
31/7/92	73	7.9	8.1	7.8
1/8/92	74	7.6	8.0	7.7
3/8/92	76	7.5	7.5	7.5
4/8/92	77	7.7	7.5	7.6
5/8/92	78	7.9	8.1	7.9
6/8/92	79	8.1	8.0	8.1
7/8/92	80	8.0	8.0	8.0
10/8/92	83	8.1	8.0	7.9
11/8/92	84	8.1	7.9	7.7
12/8/92	85	7.5	8.1	8.0
13/8/92	86	8.2	8.2	8.0
14/8/92	87	8.1	8.0	8.0
15/8/92	88	8.0	8.0	8.0
17/8/92	90	7.9	8.0	8.0
18/8/92	91	8.0	8.0	7.9
19/8/92	92	7.9	7.9	8.0
20/8/92	93	8.1	8.0	8.1
21/8/92	94	7.9	7.9	7.7
22/8/92	95	7.7	7.7	7.9
24/8/92	97	7.9	7.9	7.9
25/8/92	98	7.9	7.9	7.9

TABLA Nro. 294 - SISTEMA "PILAR"
pH MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	pH CRUDO MEDIO	pH ZANJA MEDIO	pH EFLUENTE MEDIO
26/8/92	99	7.9	7.8	8.0
27/8/92	100	7.8	7.6	7.8
28/8/92	101	7.8	7.9	7.9
29/8/92	102	7.8	7.9	8.0
31/8/92	104	7.8	8.1	8.0
1/9/92	105	7.8	7.8	7.8
2/9/92	106	7.9	7.7	7.6
3/9/92	107	7.8	7.8	8.0
4/9/92	108	7.7	7.4	7.6
5/9/92	109	7.7	8.1	8.1
7/9/92	111	8.2	8.1	8.1
8/9/92	112	8.2	8.2	8.3
9/9/92	113	8.6	8.7	8.7
10/9/92	114	9.0	8.9	8.7
11/9/92	115	8.7	8.6	8.7
12/9/92	116	8.6	8.5	8.9
14/9/92	118	8.4	8.5	8.5
15/09/92	119	8.6	8.9	8.9
16/09/92	120	8.4	8.5	8.3
17/09/92	121	8.5	8.8	8.4
18/09/92	122	8.4	8.3	8.6
19/09/92	123	8.6	8.7	8.5
21/09/92	125	8.3	8.9	8.9
22/09/92	126	8.4	8.6	8.4
23/09/92	127	8.6	8.4	8.8
24/09/92	128	8.4	8.5	8.6
25/09/92	129	8.8	8.8	8.7
26/09/92	130	8.7	8.5	8.7
28/09/92	132	8.9	9.0	8.8
29/09/92	133	8.9	8.8	8.8
30/09/92	134	8.8	8.8	8.9
01/10/92	135	8.8	8.9	8.9
02/10/92	136	8.8	8.8	8.7
03/10/92	137	8.7	8.9	8.8
05/10/92	139	8.8	8.9	8.8
06/10/92	140	8.7	8.8	8.9
07/10/92	141	8.8	8.9	8.8
08/10/92	142	8.8	8.9	8.9

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
20/5/92	1			
21/5/92	2			
22/5/92	3			
23/5/92	4			
24/5/92	5			
25/5/92	6			
26/5/92	7			
27/5/92	8			
28/5/92	9	7.30	0.6	1.3
	9	11.00	0.2	4.2
	9	13.00	0.3	0.5
	9	16.00	1.2	1.5
29/5/92	10	11.00	0.2	1.8
	10	13.00	0.1	0.7
	10	16.00	0.3	1.5
30/5/92	11			
31/5/92	12			
1/6/92	13	7.30		
	13	11.00	0.2	0.2
	13	13.00	0.2	2.3
	13	16.00	0.5	3.1
2/6/92	14	7.30	0.2	0.7
	14	11.00	0.2	3.1
	14	13.00	0.2	0.3
3/6/92	15	7.30	0.5	0.6
	15	13.00	0.3	0.2
	15	16.00	0.2	0.4
4/6/92	16	7.30	0.3	0.1
	16	11.00	0.4	0.6
	16	13.00	0.1	0.4
	16	16.00	0.2	1.3
5/6/92	17	7.30	0.1	0.5
	17	11.00	0.2	0.6
	17	13.00	0.1	0.8
	17	16.00	1.4	2.3
6/6/92	18			
7/6/92	19			
8/6/92	20			
9/6/92	21	7.30	0.4	0.9
	21	11.00	0.1	0.7
	21	13.00	0.3	0.5
	21	16.00	0.4	0.6

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
10/6/92	22	7.30	0.3	0.3
	22	11.00	0.6	1.4
	22	13.00	0.1	0.4
	23	16.00	0.1	0.1
11/6/92	23	11.00	0.5	0.3
	23	13.00	0.6	0.4
	23	16.00	1.2	1.1
12/6/92	24	7.30	0.1	0.1
	24	11.00	1.1	0.3
	24	13.00	1.2	1.3
	24	16.00	0.5	0.4
13/6/92	25	7.30	0.3	0.7
	25	11.00	1.3	1.6
	25	13.00	0.6	0.6
	25	16.00	0.2	0.1
14/6/92	26	7.30	0.2	0.6
	26	11.00	0.6	0.3
	26	13.00	0.1	0.3
	26	16.00	0.1	0.2
15/6/92	27			
16/6/92	28	7.30	0.1	0.6
	28	11.00	0.3	1.1
	28	13.00	0.9	0.2
	28	16.00	0.3	0.4
17/6/92	29			
18/6/92	30	7.30	0.4	0.5
	30	11.00	0.3	0.6
	30	13.00	0.2	0.5
	30	16.00	0.1	0.1
19/6/92	31	7.30	0.6	0.3
	31	11.00	0.1	0.6
	31	13.00	0.5	0.8
	31	16.00	0.7	0.1
20/6/92	32	7.30	0.9	0.6
	32	11.00	0.5	0.7
	32	13.00	0.7	0.9
	32	16.00	0.6	0.9
21/6/92	33			
22/6/92	34	7.30	0.1	0.4
	34	11.00	0.5	0.9
	34	13.00	0.2	0.1
	34	16.00	0.1	0.1

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
23/6/92	35	7.30	0.1	0.2
	35	11.00	0.4	0.1
	35	13.00	0.2	0.5
	35	16.00	0.1	0.3
24/6/92	36	7.30	0.7	0.6
	36	11.00	0.4	0.1
	36	13.00	0.1	0.1
	36	16.00	0.6	0.4
25/6/92	37	7.30	0.7	0.9
	37	11.00	0.1	0.3
	37	13.00	0.9	0.3
	37	16.00	0.6	0.2
26/6/92	38	7.30	0.4	0.9
	38	11.00	0.6	0.7
	38	13.00	0.1	0.4
	38	16.00	0.1	0.1
27/6/92	39			
28/6/92	40			
29/6/92	41	7.30	0.8	0.7
	41	11.00	0.6	2.5
	41	13.00	0.5	2.4
30/6/92	42	7.30	0.3	0.3
	42	11.00	0.8	1.1
	42	13.00	0.4	1.5
1/7/92	43	13.00	1.3	1.8
	43	16.00	1.5	1.3
2/7/92	44	7.30	1.4	1.6
	44	11.00	0.9	0.7
	44	13.00	1.1	0.9
	44	16.00	0.4	0.5
3/7/92	45	7.30	1.3	0.4
	45	11.00	0.6	1.6
	45	13.00	0.8	0.8
	45	16.00	0.3	0.6
4/7/92	46	7.30	2.1	1.6
	46	11.00	0.6	1.3
	46	13.00	0.8	0.1
	46	16.00	0.9	0.4
5/7/92	47			
6/7/92	48	7.30	1.8	1.6
	48	11.00	1.4	0.6
	48	13.00	0.1	1.6
	48	16.00	0.4	1.3

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
7/7/92	49	7.30	0.8	0.4
	49	11.00	0.4	0.6
	49	13.00	0.7	0.9
	49	16.00	1.3	1.1
8/7/92	50	7.30	1.1	0.1
	50	11.00	0.9	0.4
	50	13.00	0.8	0.9
9/7/92	51	7.30	0.5	0.6
	51	11.00	0.3	0.3
	51	13.00	1.4	0.3
	51	16.00	0.2	0.1
10/7/92	52	7.30	0.1	0.6
	52	11.00	0.7	0.5
	52	13.00	0.3	0.5
	52	16.00	0.1	0.2
11/7/92	53			
12/7/92	54			
13/7/92	55	7.30	0.9	0.3
	55	11.00	0.3	0.5
	55	13.00	0.1	0.3
	55	16.00	1.1	0.7
14/7/92	56	7.30	0.9	ND
	56	11.00	ND	0.3
	56	13.00	0.3	0.1
	56	16.00	0.5	0.1
15/7/92	57	7.30	0.3	2.1
	57	11.00	0.9	0.3
	57	13.00	1.1	1.2
	57	16.00	1.3	1.1
16/7/92	58	7.30	0.3	0.9
	58	11.00	1.1	0.3
17/7/92	59	7.30	2.1	0.5
	59	11.00	0.1	0.3
	59	13.00	0.5	0.4
	59	16.00	1.1	0.4
18/7/92	60	7.30	0.3	0.6
19/7/92	61			
20/7/92	62	7.30	0.4	0.1
	62	11.00	1.1	0.2
	62	13.00	0.3	0.1
	62	16.00	0.1	0.1

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
21/7/92	63	7.30	0.7	1.7
	63	11.00	0.5	0.1
	63	13.00	0.3	0.3
	63	18.00	0.3	0.1
22/7/92	64	7.30	0.6	0.3
	64	11.00	0.1	0.1
	64	13.00	0.1	0.5
	64	18.00	0.5	0.8
23/7/92	65	7.30	0.1	0.3
	65	11.00	0.5	0.1
	65	13.00	0.3	0.2
	65	18.00	0.1	1.1
24/7/92	66	7.30	0.7	1.1
	66	11.00	0.4	1.0
	66	13.00	0.8	0.1
	66	18.00	0.4	0.3
25/7/92	67	7.30	0.3	0.8
	67	11.00	0.5	0.5
	67	13.00	0.5	0.3
	67	18.00	0.1	0.3
26/7/92	68			
27/7/92	69	7.30	0.8	0.3
	69	11.00	0.3	0.1
	69	13.00	0.1	0.5
	69	18.00	0.1	0.1
28/7/92	70	7.30	1.9	2.1
	70	11.00	0.5	1.1
	70	13.00	0.3	0.1
	70	18.00	0.1	0.2
29/7/92	71	7.30	0.3	0.2
	71	11.00	0.5	0.3
	71	13.00	0.3	0.1
	71	18.00	0.1	0.1
30/7/92	72	7.30	0.2	0.2
	72	11.00	0.5	1.1
	72	13.00	0.5	0.9
	72	18.00	0.1	0.1
31/7/92	73	7.30	0.3	0.1
	73	11.00	0.6	0.2
	73	13.00	0.5	0.7
	73	18.00	0.2	0.1
1/8/92	74	7.30	0.1	0.3
	74	11.00	0.1	0.1
	74	13.00	0.3	0.5
	74	18.00	0.1	0.1

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
2/8/92	75			
3/8/92	76	7.30	0.1	0.1
	76	11.00	0.2	0.1
	76	13.00	0.3	0.1
	76	18.00	0.1	0.1
4/8/92	77	7.30	0.1	ND
	77	11.00	0.2	0.1
	77	13.00	0.1	0.3
	77	18.00	0.1	0.1
5/8/92	78	7.30	0.1	0.4
	78	11.00	ND	0.1
	78	13.00	ND	0.1
	78	18.00	0.1	ND
6/8/92	79	7.30	0.1	0.1
	79	11.00	0.3	0.1
	79	13.00	0.2	0.1
	79	18.00	0.1	ND
7/8/92	80	7.30	0.1	0.2
	80	11.00	0.3	0.1
	80	13.00	0.1	0.1
	80	18.00	0.3	0.1
8/8/92	81			
9/8/92	82			
10/8/92	83	7.30	0.1	0.3
	83	11.00	0.4	0.6
	83	13.00	0.3	0.1
	83	18.00	0.3	0.1
11/8/92	84	7.30	ND	0.2
	84	11.00	ND	0.3
	84	13.00	0.1	0.1
	84	18.00	0.1	0.1
12/8/92	85	7.30	0.1	0.1
	85	11.00	ND	0.1
	85	13.00	0.3	0.1
	85	18.00	0.1	0.2
13/8/92	86	7.30	0.1	ND
	86	11.00	0.2	0.1
	86	13.00	0.1	ND
	86	18.00	0.1	ND
14/8/92	87	7.30	0.1	0.1
	87	11.00	0.3	0.2
	87	13.00	0.3	0.1
	87	18.00	0.1	ND

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
15/8/92	88	7.30	0.1	ND
	88	11.00	0.1	0.1
	88	13.00	ND	0.1
	88	18.00	ND	0.1
16/8/92	89			
17/8/92	90	7.30	0.1	ND
	90	11.00	0.5	0.1
	90	13.00	0.2	0.1
	90	18.00	0.2	0.1
18/8/92	91	7.30	0.1	0.4
	91	11.00	0.1	0.3
	91	13.00	0.6	0.2
	91	18.00	0.1	0.1
19/8/92	92	7.30	1.8	0.2
	92	11.00	1.6	0.1
	92	13.00	1.7	0.1
	92	18.00	0.1	ND
20/8/92	93	7.30	0.1	0.9
	93	11.00	0.5	0.1
	93	13.00	0.1	0.1
	93	16.00	ND	0.1
21/8/92	94	7.30	1.3	0.7
	94	11.00	0.9	0.1
	94	13.00	0.1	0.1
	94	16.00	ND	0.1
22/8/92	95	7.30	0.9	0.1
	95	11.00	0.7	ND
	95	13.00	0.9	0.1
	95	16.00	0.1	ND
23/8/92	96			
24/8/92	97			
25/8/92	98	7.30	1.1	0.3
	98	11.00	0.1	0.2
	98	13.00	0.1	0.3
	98	16.00	0.2	0.2
26/8/92	99	7.30	0.1	0.2
	99	11.00	0.3	0.4
	99	13.00	0.1	0.3
	99	16.00	0.1	0.3
27/8/92	100	7.30	0.3	0.1
	100	11.00	0.2	0.3
	100	13.00	0.1	0.1
	100	16.00	0.1	ND

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
28/8/92	101	7.30	0.2	0.1
	101	11.00	0.1	0.1
	101	13.00	0.3	0.1
	101	16.00	0.1	0.1
29/8/92	102	7.30	0.2	0.1
	102	11.00	0.1	0.1
	102	13.00	0.2	0.3
	102	16.00	0.1	0.1
31/8/92	104	7.30	0.6	0.1
	104	11.00	0.1	ND
	104	13.00	0.1	ND
	104	16.00	0.1	0.1
1/9/92	105	7.30	0.1	0.1
	105	11.00	0.1	0.3
	105	13.00	0.3	0.1
	105	16.00	0.2	0.1
2/9/92	106	7.30	0.2	0.2
	106	11.00	0.3	0.1
	106	13.00	0.2	0.2
	106	16.00	0.3	0.1
3/9/92	107	7.30	0.2	0.1
	107	11.00	0.1	0.1
	107	13.00	0.1	0.1
	107	16.00	0.6	0.2
4/9/92	108	7.30	0.3	0.2
	108	11.00	0.6	0.1
	108	13.00	0.4	0.1
	108	16.00	0.1	0.1
5/9/92	109	7.30	0.3	0.1
	109	11.00	0.1	ND
	109	13.00	0.1	ND
	109	16.00	ND	0.1
6/9/92	110			
7/9/92	111	7.30	0.3	0.4
	111	11.00	0.1	0.4
	111	13.00	0.2	0.1
	111	16.00	0.1	0.1
8/9/92	112	7.30	0.1	0.1
	112	11.00	ND	0.1
	112	13.00	ND	0.1
	112	16.00	ND	ND

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
9/9/92	113	7.30	ND	0.1
	113	11.00	ND	ND
	113	13.00	0.1	0.1
	113	16.00	ND	ND
10/9/92	114	7.30	0.1	0.1
	114	11.00	0.1	ND
	114	13.00	ND	ND
	114	16.00	ND	ND
11/9/92	115	7.30	ND	ND
	115	11.00	0.1	ND
	115	13.00	ND	0.1
	115	16.00	ND	ND
12/9/92	116	7.30	ND	ND
	116	11.00	0.1	ND
	116	13.00	ND	0.1
	116	16.00	ND	ND
13/9/92	117			
14/9/92	118	7.30	ND	0.1
	118	11.00	ND	ND
	118	13.00	0.1	ND
	118	16.00	ND	0.1
15/09/92	119	7.30		
	119	11.00		
	119	13.00		
	119	16.00		
16/09/92	120	7.30	3.6	0.5
	120	11.00	3.4	0.9
	120	13.00	3.5	1.1
	120	16.00	2.8	0.9
17/09/92	121	7.30	3.4	1.8
	121	11.00	3.2	2.1
	121	13.00	3	1.5
	121	16.00	3.6	2
18/09/92	122	7.30	3.2	1.8
	122	11.00	3.5	1.5
	122	13.00	3.4	1.5
	122	16.00	3.1	1.4
19/09/92	123	7.30	2.8	1.5
	123	11.00	3.1	1.8
	123	13.00	3.5	1.6
	123	16.00	3.4	1.7

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
21/09/92	125	7.30	3.2	1.8
	125	11.00	3.1	2.2
	125	13.00	3.2	2.1
	125	16.00	3.4	1.9
22/09/92	126	7.30	3.2	1.9
	126	11.00	3.1	1.7
	126	13.00	3.3	1.6
	126	16.00	3.4	1.2
23/09/92	127	7.30	3.8	1.9
	127	11.00	3.4	1.7
	127	13.00	4	0.9
	127	16.00	3.8	1.1
24/09/92	128	7.30	3.1	1.8
	128	11.00	3.1	1.7
	128	13.00	3.4	1.4
	128	16.00	3.6	1.6
25/09/92	129	7.30		
	129	11.00		
	129	13.00		
	129	16.00		
26/09/92	130	7.30		
	130	11.00		
	130	13.00		
	130	16.00		
28/09/92	132	7.30	3.6	1.1
	132	11.00	3.4	1.2
	132	13.00	3.8	1.5
	132	16.00	3.7	1.2
29/09/92	133	7.30	2.8	1.5
	133	11.00	2.4	1.5
	133	13.00	2.5	1.6
	133	16.00	3	1.5
30/09/92	134	7.30	3.2	0.8
	134	11.00	3.1	1.2
	134	13.00	3.2	1.4
	134	16.00	3	1.4
01/10/92	135	7.30	3.1	1.7
	135	11.00	3.5	1.5
	135	13.00	2.9	1.3
	135	16.00	3	2

TABLA Nro. 295 - SISTEMA "PILAR"
OXIGENO DISUELTO (cont.)

FECHA	DIA OPERATIVO	HORA	O.D. ZANJA (mg/l)	O.D. EFLUENTE (mg/l)
02/10/92	136	7.30	3.4	1.7
	136	11.00	4	1.5
	136	13.00	3.2	1
	136	16.00	3.5	1.2
03/10/92	137	7.30		
	137	11.00		
	137	13.00		
	137	16.00		
05/10/92	139	7.30	3.4	1
	139	11.00	3.2	1.2
	139	13.00	3.6	1.1
	139	16.00	3.5	1.2
06/10/92	140	7.30	2.8	1.4
	140	11.00	3.4	1.5
	140	13.00	3.5	1.1
	140	16.00	3.4	1.8
07/10/92	141	7.30	3	1.5
	141	11.00	3.8	1.8
	141	13.00	3.3	2
	141	16.00	3.1	1.9

NOTA: ND: No Detectado
(Límite de detección: 0.1 mg/l)

TABLA Nro. 296 - SISTEMA "PILAR"
OXIGENO DISUELTO MEDIO DIARIO

FECHA	DIA OPERATIVO	O.D. ZANJA MEDIO (mg/l)	O.D. EFLUENTE MEDIO (mg/l)
28/5/92	9	0.6	1.9
29/5/92	10	0.2	1.3
1/6/92	13	0.3	1.9
2/6/92	14	0.2	1.4
3/6/92	15	0.3	0.4
4/6/92	16	0.3	0.6
5/6/92	17	0.5	1.1
9/6/92	21	0.3	0.7
10/6/92	22	0.3	0.6
11/6/92	23	0.8	0.6
12/6/92	24	0.7	0.5
13/6/92	25	0.6	0.8
14/6/92	26	0.3	0.4
16/6/92	28	0.4	0.6
18/6/92	30	0.3	0.4
19/6/92	31	0.5	0.5
20/6/92	32	0.7	0.8
22/6/92	34	0.2	0.4
23/6/92	35	0.2	0.3
24/6/92	36	0.5	0.3
25/6/92	37	0.6	0.4
26/6/92	38	0.3	0.5
29/6/92	41	0.6	1.9
30/6/92	42	0.5	1.0
1/7/92	43	1.4	1.6
2/7/92	44	1.0	0.9
3/7/92	45	0.8	0.9
4/7/92	46	1.1	0.9
6/7/92	48	0.9	1.3
7/7/92	49	0.8	0.8
8/7/92	50	0.9	0.5
9/7/92	51	0.6	0.3
10/7/92	52	0.3	0.5
13/7/92	55	0.6	0.5
14/7/92	56	0.5	0.2
15/7/92	57	0.9	1.2

TABLA Nro. 296 - SISTEMA "PILAR"
OXIGENO DISUELTO MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	O.D. ZANJA MEDIO (mg/l)	O.D. EFLUENTE MEDIO (mg/l)
16/7/92	58	0.7	0.6
17/7/92	59	1.0	0.4
18/7/92	60	0.3	0.6
20/7/92	62	0.5	0.1
21/7/92	63	0.5	0.6
22/7/92	64	0.3	0.4
23/7/92	65	0.3	0.4
24/7/92	66	0.6	0.6
25/7/92	67	0.4	0.5
27/7/92	69	0.3	0.3
28/7/92	70	0.7	0.9
29/7/92	71	0.3	0.2
30/7/92	72	0.3	0.6
31/7/92	73	0.4	0.3
1/8/92	74	0.2	0.3
3/8/92	76	0.2	0.1
4/8/92	77	0.1	0.2
5/8/92	78	0.1	0.2
6/8/92	79	0.2	0.1
7/8/92	80	0.2	0.1
10/8/92	83	0.3	0.3
11/8/92	84	0.1	0.2
12/8/92	85	0.2	0.1
13/8/92	86	0.1	0.1
14/8/92	87	0.2	0.1
15/8/92	88	0.1	0.1
17/8/92	90	0.3	0.1
18/8/92	91	0.2	0.3
19/8/92	92	1.3	0.1
20/8/92	93	0.2	0.3
21/8/92	94	0.6	0.3
22/8/92	95	0.7	0.1
25/8/92	98	0.4	0.3
26/8/92	99	0.2	0.3
27/8/92	100	0.2	0.2

TABLA Nro. 296 - SISTEMA "PILAR"
OXIGENO DISUELTO MEDIO DIARIO (cont.)

FECHA	DIA OPERATIVO	O.D. ZANJA MEDIO (mg/l)	O.D. EFLUENTE MEDIO (mg/l)
26/8/92	101	0.2	0.1
29/8/92	102	0.2	0.2
31/8/92	104	0.2	0.1
1/9/92	105	0.2	0.2
2/9/92	106	0.3	0.2
3/9/92	107	0.3	0.1
4/9/92	108	0.4	0.1
5/9/92	109	0.2	0.1
7/9/92	111	0.2	0.3
8/9/92	112	0.1	0.1
9/9/92	113	0.1	0.1
10/9/92	114	0.1	0.1
11/9/92	115	0.1	0.1
12/9/92	116	0.1	0.1
14/9/92	118	0.1	0.1
15/09/92	119		
16/09/92	120	3.3	0.9
17/09/92	121	3.3	1.9
18/09/92	122	3.3	1.6
19/09/92	123	3.2	1.7
21/09/92	125	3.2	2.0
22/09/92	126	3.3	1.6
23/09/92	127	3.8	1.4
24/09/92	128	3.3	1.6
25/09/92	129		
26/09/92	130		
28/09/92	132	3.6	1.5
29/09/92	133	2.7	1.5
30/09/92	134	3.1	1.2
01/10/92	135	3.1	1.6
02/10/92	136	3.5	1.4
03/10/92	137		
05/10/92	139	3.4	1.1
06/10/92	140	3.3	1.5
07/10/92	141	3.3	1.8

SISTEMA PILAR

TABLA N° 297 - DBO5 TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
21/7/92	100	40
22/7/92	120	55
23/7/92	78	25
24/7/92	137	76
25/7/92	107	103
26/7/92	120	73
27/7/92	135	85
28/7/92	85	65
16/9/92	199	107
7/10/92	209	69
11/10/92	346	115
19/10/92	470	149
23/10/92	454	175

TABLA N° 298 - DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
26/8/92	138	89
16/9/92	107	76

SISTEMA PILAR

TABLA N° 299 - DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/7/92	102	46
20/7/92	200	120
21/7/92	160	45
22/7/92	173	100
23/7/92	124	32
24/7/92	187	103
25/7/92	137	140
26/7/92	136	89
27/7/92	178	115
28/7/92	122	87
26/8/92	322	148
16/9/92	339	138

TABLA N° 300 - OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
18/6/92 (*)	50.4	19.0
19/6/92 (*)	40.8	28.0
2/7/92 (*)	23.0	8.5
3/7/92 (*)	94.4	11.8
6/7/92 (*)	10.0	4.0
9/7/92 (*)	53.8	38.0
1/8/92 (*)	95.5	73.2
3/8/92 (*)	103.5	38.0
4/8/92 (*)	101.3	98.2

NOTA:

(*) Muestras puntuales (7,30 h).

SISTEMA PILAR

TABLA N° 301 - SOLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO (mg/l)	ENTRADA SEDIMENTADOR (mg/l)	EFLUENTE (mg/l)
20/5/92	34		22
3/6/92	22		15
1/7/92	30		25
20/7/92	152		23
26/8/92	51		34
16/9/92	52		23
7/10/92	850	470	231
11/10/92	1169	959	538
15/10/92	11288	6759	349
19/10/92	20612	4144	292
23/10/92	3152	4532	261

SISTEMA PILAR

TABLA N° 302 - NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
7/7/92	26.32	25.76
20/7/92	56.00	28.00
26/8/92	35.84	22.40

TABLA N° 303 - NITROGENO AMONIACAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
20/7/92	50.40	22.40
26/8/92	25.20	11.20

TABLA N° 304 - NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/7/92	0.01	0.01
26/8/92	ND	ND
16/9/92	0.40	0.10

NOTA:

ND = no detectado

(límite detección: 0.01 mg/l)

SISTEMA PILAR

TABLA N° 305 - FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/7/92	9.82	6.14
26/8/92	13.00	1.00
16/9/92	20.00	15.00

TABLA N° 306 - FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
3/6/92	0.36	0.36
1/7/92	3.56	2.21
26/8/92	2.00	1.00
16/9/92	56.00	28.00

SISTEMA PILAR

TABLA N° 307 - GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)
1/7/92	63	25
20/7/92	20	18
26/8/92	28	18

TABLA N° 308 - ARSENICO

FECHA	CRUDO (µg/l)	EFLUENTE (µg/l)
20/5/92	100	40
1/7/92	48	24
20/7/92	26	26
26/8/92	20	10

SISTEMA PILAR

TABLA N° 309 - MICROORGANISMOS INDICADORES

PARAMETRO (NMP/100 ml)

FECHA	COLITOTALES		COLIFECALIS		STREPTOCOCCUS FAECALIS	
	ENTRADA	SALIDA	ENTRADA	SALIDA	ENTRADA	SALIDA
20/4/92	6.2E+05	2.2E+05				
3/6/92	1.9E+07	8.5E+06	7.3E+05	3.6E+05		
17/6/92	6.5E+07	2.1E+07	2.3E+06	5.4E+05	4.4E+05	1.3E+05
17/92	2.0E+07	7.7E+06	3.7E+06	1.3E+06	9.3E+05	9.0E+04
20/7/92	1.3E+07	6.3E+06	1.6E+06	5.1E+05	3.8E+05	2.0E+05
26/8/92	1.5E+08	7.7E+07	1.3E+07	3.1E+06	3.8E+06	7.0E+05
16/9/92	1.6E+07	6.8E+06	1.7E+06	6.1E+05		

SISTEMA PILAR

TABLA N° 310 - REMOCIONES DE DBO5 TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
21/7/92	100	40	60.0
22/7/92	120	55	54.2
23/7/92	78	25	68.0
24/7/92	137	76	44.5
25/7/92	107	103	3.7
26/7/92	120	73	39.2
27/7/92	135	85	37.0
28/7/92	85	65	23.5
16/9/92	199	107	46.2
7/10/92	209	69	67.0
11/10/92	346	115	66.8
19/10/92	470	149	68.3
23/10/92	454	175	61.5

TABLA N° 311 - REMOCIONES DE DBO5 SOLUBLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
26/8/92	138	89	35.5
16/9/92	107	76	30.0

SISTEMA PILAR

TABLA N° 312 - REMOCIONES DE DQO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
1/7/92	102	46	54.9
20/7/92	200	120	40.0
21/7/92	160	45	71.9
22/7/92	173	100	42.2
23/7/92	124	32	74.2
24/7/92	187	103	44.9
25/7/92	137	140	0.0
26/7/92	136	89	34.6
27/7/92	178	115	35.4
28/7/92	122	87	28.7
26/8/92	322	148	54.0
16/9/92	339	138	59.3

TABLA N° 313 - REMOCIONES DE OXIGENO CONSUMIDO

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
18/6/92	50.4	19.0	62.3
19/6/92	40.8	28.0	31.4
2/7/92	23.0	8.5	63.0
3/7/92	94.4	11.8	87.5
6/7/92	10.0	4.0	60.0
9/7/92	53.8	38.0	29.4
1/8/92	95.5	73.2	23.4
3/8/92	103.5	38.0	63.3
4/8/92	101.3	98.2	3.1

SISTEMA PILAR

TABLA N° 314 - REMOCIONES DE SOLIDOS SUSPENDIDOS TOTALES

FECHA	SEDIMENTADOR			ZANJA + SEDIMENTADOR		
	ENTRADA (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
20/5/92				34	22	35.3
3/6/92				22	15	31.8
1/7/92				30	25	16.7
20/7/92				152	23	84.9
26/8/92				51	34	33.3
16/9/92				52	23	55.8
7/10/92	470	231	50.9	850	231	72.8
11/10/92	959	538	43.9	1169	538	54.0
15/10/92	6759	349	94.8	11288	349	96.9
19/10/92	4144	292	93.0	2061	292	85.8
23/10/92	4532	261	94.2	3152	261	91.7

SISTEMA PILAR

TABLA N° 315 - REMOCIONES DE NITROGENO TOTAL KJELDAHL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
1/7/92	26.32	25.76	2.1
20/7/92	56.00	28.00	50.0
26/8/92	35.84	22.40	37.5

TABLA N° 316 - REMOCIONES DE NITROGENO AMONIAICAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
20/7/92	50.40	22.40	55.6
26/8/92	25.20	11.20	55.6

TABLA N° 317 - REMOCIONES DE NITRITOS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
1/7/92	0.01	0.01	0.0
16/9/92	0.40	0.10	75.0

SISTEMA PILAR

TABLA N° 318 - REMOCIONES DE FOSFORO TOTAL

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
1/7/92	9.82	6.14	37.5
26/8/92	13.00	1.00	92.3
16/9/92	20.00	15.00	25.0

TABLA N° 319 - REMOCIONES DE FOSFORO HIDROLIZABLE

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
3/6/92	0.36	0.36	0.0
1/7/92	3.56	2.21	37.9
26/8/92	2.00	1.00	50.0
16/9/92	56.00	28.00	50.0

SISTEMA PILAR

TABLA N° 320 - REMOCIONES DE GRASAS

FECHA	CRUDO (mg/l)	EFLUENTE (mg/l)	REMOCION PORCENTUAL
1/7/92	63	25	60.3
20/7/92	20	18	10.0
26/8/92	28	18	35.7

TABLA N° 321 - REMOCIONES DE ARSENICO

FECHA	CRUDO (µg/l)	EFLUENTE (µg/l)	REMOCION PORCENTUAL
20/5/92	100	40	60.0
1/7/92	48	24	50.0
20/7/92	26	26	0.0
26/8/92	20	10	50.0

TABLA N° 322 - REMOCIONES DE MICROORGANISMOS INDICADORES

FECHA	PARAMETRO									
	COLITOTALES			COLIFECALIS			STREPTOCOCCUS FAECALIS			
	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	ENTRADA (NMP/100ml)	SALIDA (NMP/100ml)	REMOCION (%)	REMOCION (%)
20/4/92	6.2E+05	2.2E+05	64.5							
3/6/92	1.9E+07	8.5E+06	55.3	7.3E+05	3.6E+05	50.7	4.4E+05	1.3E+05		70.5
17/6/92	6.5E+07	2.1E+07	67.7	2.3E+06	5.4E+05	76.5	9.3E+05	9.0E+04		90.3
17/92	2.0E+07	7.7E+06	61.5	3.7E+06	1.3E+06	64.9	3.8E+05	2.0E+05		47.4
20/7/92	1.3E+07	6.3E+06	51.5	1.6E+06	5.1E+05	68.1	3.8E+06	7.0E+05		81.6
26/8/92	1.5E+08	7.7E+07	48.7	1.3E+07	3.1E+06	76.2				
16/9/92	1.6E+07	6.8E+06	62.5	1.7E+06	6.1E+05	64.1				

SISTEMA PILAR

TABLA N° 323 - CARACTERISTICAS DE LODOS

EDAD DE LA LAGUNA: 6 MESES

PROFUNDIDAD DE LODOS : BARROS DE RECIRCULACION

FECHA	LUGAR	PARAMETROS	
17/6/92	PILAR	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	56.8 mg/g
		SOLIDOS VOLATILES	37.7 mg/g
		SOLIDOS FIJOS	13.1 mg/g
		CENIZAS (900-950 °C)	6.51 mg/g
		DQO	111 g/l
		APORTE DBO SOLUBLE	25 mg/l
		IVL	20
22/7/92	PILAR	SECATIVIDAD	BUENA
		RESIDUO 100/105°C	60 mg/g
		SOLIDOS VOLATILES	41 mg/g
		SOLIDOS FIJOS	14.5 mg/g
		CENIZAS (900-950 °C)	8.5 mg/g
		DQO	120 g/l
		APORTE DBO SOLUBLE	30 mg/l
		IVL	22

TABLA N° 324 - CAUDALES HORARIOS

HORA	CAUDALES (m3/h)														CAUDAL MEDIO
	08/10/92	09/10/92	10/10/92	31/10/92	01/11/92	5/11/92	6/11/92	28/01/93	02/02/93	04/02/93	18/02/93	23/02/93	25/02/93	03/03/93	
0		90	108		169.8		125.02								123.21
1					155.89		112.49								134.19
2		94	90		129.29		104.4								104.42
3					100.41		92.61								96.51
4		94	90		96.49		92.61								93.28
5					92.61		96.49								94.55
6		94			92.61		96.49								94.37
7				92.61	92.61		92.61	92.61	116.6	52.71	92.61	68.49	44.96	84.49	83.03
8				96.49			133.61	116.6	92.61	68.49	76.41	96.49	68.81	96.49	94.00
9				116.6			142.38	184.09	151.34	88.21	137.97	100.41	116.6	108.41	127.33
10				193.83			165.12	179.3	125.02	146.84	142.38	112.49	108.41	125.02	144.27
11				218.9			184.09	151.34	151.34	151.34	133.61	125.02	133.61	100.41	149.96
12				224.03			213.81	151.34	133.61	160.5	151.34	151.34	155.89	129.29	163.46
13				218.9			218.9	198.77	151.34	133.61	155.89	142.38	151.34	142.38	168.17
14				213.8			224.03	169.8	151.34	151.34	160.5	151.34	165.12	155.89	171.46
15				208.7				120.79	142.38	151.34	184.09	142.38	142.38	198.77	169.06
16				218.9			203.74	151.34	165.12	151.34	179.3	146.84	151.34	203.74	174.63
17				218.9			208.7	160.5	151.34	151.34	169.8	151.34	142.38	160.5	168.31
18				224.03			198.77	142.38	169.8	155.89	193.83	146.84	160.5	198.77	176.76
19				218.9			193.83	133.61					160.5	160.5	176.71
20				198.77			188.9								193.84
21				188.9			179.3								184.10
22	108	126		188.9			169.8								148.18
23				184.09			151.34								167.72

SISTEMA PILAR
 TABLA N° 325 - CAUDALES MEDIOS
 INGRESANTES

FECHA	CAMIONES ATMOSFERICOS		RED CLOACAL
	V[m3] (1)	\bar{Q} [m3/h] (2)	[m3/h] (3)
28/01/93	242	20.17	151.57
02/02/93	165	13.75	141.82
04/02/93	215	17.92	130.25
18/02/93	265	22.08	148.14
23/02/93	329	27.42	127.95
25/02/93	246	20.50	128.45
03/03/93	271	22.58	142.01

- (1) Volumen diario acumulado
- (2) \bar{Q} horario correspondiente al período de descarga (7-18 h)
- (3) \bar{Q}
7-18 h

SISTEMA PILAR

TABLA N° 326 - DBO5 TOTAL

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	258	90	110	33	69.9
02/02/93	486	240	262	216	17.5
04/02/93	390	126	158	72	54.4
18/02/93	855	150	241	135	44.1
23/02/93	782	240	336	108	67.8
25/02/93	220	65	86	20	76.8
03/03/93	595	86	139	28	79.8

TABLA N° 327 - DBO5 SOLUBLE

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	242	51	73	30	59.1
02/02/93	261			54	
04/02/93	228	68	88	36	59.2
18/02/93	607	105	170	60	64.7
23/02/93	258	113	139	38	72.6

TABLA N° 328 - DQO

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	1020	201	297	74	75.1
02/02/93	1563	286	399	339	15.0
04/02/93	710	197	259	158	39.0
18/02/93	1555	235	406	167	58.9
23/02/93	1185	333	483	119	75.4
25/02/93	598	246	294	58	80.3
03/03/93	1177	101	249	94	62.2

TABLA N° 329 - SÓLIDOS SUSPENDIDOS TOTALES

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	ENTRADA SEDIM. 2° [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL SED. 2°	REMOCION PORCENTUAL SISTEMA
28/01/93	478	172	208	2136	48	97.8	76.9
02/02/93	1284	100	205	1172	100	91.5	51.1
04/02/93	292	80	106	2952	108	95.9	0.0
18/02/93	398	132	166	1256	80	93.6	51.9
23/02/93	396	72	129	2084	60	97.1	53.6
25/02/93	278	80	107	348	40	88.5	62.7
03/03/93	384	100	139	808	100	87.6	28.0

TABLA N° 330 - NITROGENO TOTAL KJELDAHL

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	10.0	6.0	6.5	2.5	61.4
02/02/93	5.5	5.5	5.5	5.4	1.8
04/02/93	12.5			2.0	
18/02/93	11.2	1.8	3.0	2.0	33.8
23/02/93	24.0	1.8	5.7	4.5	21.3
25/02/93	11.2	1.8	3.1	3.7	0.0
03/03/93	15.0	1.8	3.6	2.2	39.1

TABLA N° 331 - NITROGENO AMONIACAL

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	2.5	2.5	2.5	1.3	48.0
02/02/93	2.0	2.0	2.0	1.0	50.0
04/02/93	5.5	0.9	1.5	1.1	24.5
18/02/93	2.8	1.1	1.3	1.2	9.1
23/02/93	9.0	1.8	3.1	1.5	51.1
25/02/93	2.0	2.2	2.2		
03/03/93	2.2	2.2	2.2	1.5	31.8

TABLA N° 332 - NITRITOS

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	ND	ND	ND	ND	
02/02/93	ND	ND	ND	ND	
04/02/93	0.05	0.08	0.08	0.05	34.5
18/02/93	0.24	0.02	0.05	0.06	0.0

Nota: ND: No Detectado

TABLA N° 333 - FOSFORO TOTAL

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	18.1	6.1	7.5	2.7	64.0
02/02/93	18.0	6.0	7.1	4.0	43.3
04/02/93	40.0	5.3	9.5	4.3	54.7
18/02/93	14.6	18.0	17.6	12.6	26.2
23/02/93	10.0	8.0	8.4	7.0	16.2
25/02/93	20.0	10.0	11.4	10.0	12.1
03/03/93	15.0	10.0	10.7	10.0	6.4

TABLA N° 334 - FOSFORO HIDROLIZABLE

FECHA	CRUDO CAMIONES ATMOSFERICOS (SAL. SED. 1°) [mg/l]	CRUDO DE RED CLOACAL [mg/l]	CRUDO ENTRADA ZANJA [mg/l]	SALIDA SEDIM. 2° [mg/l]	REMOCION PORCENTUAL
28/01/93	13.4	3.4	4.6	1.2	73.8
02/02/93	13.1	3.1	4.0	2.1	47.3
04/02/93	22.0	1.7	4.2	1.7	59.1
18/02/93	6.0	3.6	3.9	3.2	18.2
23/02/93	8.0	1.5	2.6	1.5	43.3
25/02/93	7.0	2.5	3.1	2.0	35.9
03/03/93	7.0	6.5	6.6	5.0	23.9

SISTEMA PILAR

TABLA Nº 335 - INDICE VOLUMETRICO DE LODOS

FECHA	SALIDA DE ZANJA DE OXIDACION		IVL
	S. SED. 30'	SOL. SUSP. TOT.	
	[ml/l]	TOTALES [mg/l]	
28/01/93	90	2136	42
02/02/93	64	1172	55
04/02/93	106	2652	40
18/02/93	63	1256	50
23/02/93	77	2084	37