

Appendix 6

Concentration, Standard Error and Mass Data

Table A6-1. Mean Concentration and Standard Error for North Test Cells

<i>Parameter</i>	<i>Exp</i>	<i>Inflow (mg/L)</i>	<i>Out flow (mg/L)</i>		
			<i>Control</i>	<i>High</i>	<i>Low</i>
Total Phosphorus	1	0.0771 (0.0102)	0.0347 (0.0047)	0.0397 (0.0048)	0.0301 (0.0030)
	2	0.1035 (0.0244)	0.0470 (0.0072)	0.0572 (0.0086)	0.0337 (0.0031)
Soluble Reactive Phosphorus	1	0.0298 (0.0061)	0.0063 (0.0039)	0.0068 (0.0005)	0.0065 (0.0003)
	2	0.0292 (0.0039)	0.0052 (0.0005)	0.0055 (0.0006)	0.0045 (0.0002)
Total Dissolved Phosphorus	1	0.0441 (0.0082)	0.0160 (0.0007)	0.0196 (0.0023)	0.0165 (0.0008)
	2	0.0651 (0.0083)	0.0217 (0.0018)	0.0284 (0.0021)	0.0217 (0.0015)
Total Kjeldahl Nitrogen	1	2.655 (0.270)	1.657 (0.092)	2.002 (0.098)	1.577 (0.073)
	2	2.837 (0.146)	2.129 (0.078)	2.379 (0.065)	1.888 (0.071)
Total Dissolved Kjeldahl Nitrogen	1	2.264 (0.209)	1.497 (0.088)	1.700 (0.091)	1.348 (0.063)
	2	2.569 (0.123)	2.101 (0.063)	2.275 (0.061)	1.770 (0.057)
Ammonia Nitrogen	1	0.421 (0.076)	0.033 (0.004)	0.052 (0.007)	0.061 (0.006)
	2	0.405 (0.059)	0.072 (0.014)	0.111 (0.014)	0.112 (0.020)
Nitrate-Nitrite Nitrogen	1	0.045 (0.034)	0.010 (0.005)	0.008 (0.001)	0.011 (0.003)
	2	0.006 (0.001)	0.004 (0.0001)	0.004 (0.0002)	0.006 (0.0008)
Total Dissolved Solids	1	662.8 (53.6)	491.2 (23.7)	570.5 (28.1)	461.6 (20.8)
	2	751.9 (35.7)	665.3 (14.6)	733.3 (19.5)	567.5 (11.7)
Total Suspended Solids	1	3.3 (0.2)	3.1 (0.1)	3.3 (0.3)	3.5 (0.3)
	2	3.8 (0.4)	3.1 (0.2)	3.1 (0.3)	2.8 (0.2)
Dissolved Organic Carbon	1	33.77 (2.90)	27.86 (1.35)	32.07 (1.51)	25.88 (0.99)
	2	38.30 (1.34)	36.04 (0.96)	38.32 (0.93)	30.46 (0.79)
Total Organic Carbon	1	36.14 (2.76)	28.36 (1.31)	32.62 (1.52)	26.41 (0.96)
	2	39.22 (1.31)	36.28 (1.07)	38.39 (1.02)	30.31 (0.86)
Chloride	1	142.0 (14.6)	112.3 (8.9)	152.6 (24.1)	105.7 (6.6)
	2	192.6 (10.0)	188.2 (4.6)	193.5 (6.1)	157.3 (3.2)

**Table A6-1. Mean Concentration and Standard Error for North Test Cells
(Continued)**

<i>Parameter</i>	<i>Exp</i>	<i>Inflow (mg/L)</i>	<i>Out flow (mg/L)</i>		
			<i>Control</i>	<i>High</i>	<i>Low</i>
Calcium	1	77.4 (4.0)	60.3 (1.4)	70.6 (2.2)	64.4 (1.9)
	2	86.6 (3.0)	66.4 (1.6)	81.1 (1.7)	64.5 (1.7)
Potassium	1	10.29 (1.30)	7.91 (0.64)	9.17 (0.65)	7.45 (0.55)
	2	12.33 (0.75)	13.53 (0.52)	13.27 (0.61)	13.30 (0.42)
Magnesium	1	22.1 (1.3)	18.0 (0.9)	20.9 (1.0)	17.8 (0.7)
	2	24.7 (1.0)	23.0 (0.3)	24.2 (0.6)	18.9 (0.3)
Sodium	1	108.6 (12.4)	79.1 (6.8)	97.8 (8.0)	74.3 (4.7)
	2	132.2 (7.7)	126.2 (2.9)	131.4 (4.7)	103.5 (2.1)
Silica	1	23.0 (2.1)	15.9 (1.1)	19.5 (1.4)	11.3 (1.0)
	2	24.9 (1.4)	20.4 (0.50)	22.2 (0.7)	13.3 (0.5)
Sulfate	1	40.2 (4.0)	39.4 (2.3)	48.8 (5.1)	34.8 (1.8)
	2	66.0 (4.8)	49.9 (2.3)	60.7 (3.2)	36.5 (1.6)
Alkalinity	1	251.9 (17.9)	194.3 (6.6)	223.4 (9.4)	201.0 (6.5)
	2	284.5 (11.0)	235.9 (4.9)	271.7 (6.0)	219.9 (6.1)
Manganese (µg/L)	1	16.9 (1.2)	24.9 (2.3)	21.6 (1.9)	23.0 (5.1)
	2	14.7 (2.6)	19.8 (2.6)	14.7 (2.6)	25.8 (4.5)
Iron (µg/L)	1	42.9 (2.5)	42.7 (2.9)	60.4 (4.7)	61.1 (7.0)
	2	70.9 (4.3)	39.2 (1.5)	49.8 (2.7)	42.0 (1.7)
Aluminum (µg/L)	1	23.1 (3.7)	49.2 (13.0)	83.3 (24.9)	129.5 (42.5)
	2	22.9 (4.7)	16.4 (2.2)	18.3 (2.9)	19.1 (1.9)
Hardness	1	266.1 (20.6)	211.6 (7.2)	244.9 (10.2)	222.6 (7.9)
	2				

Table A6-2. Mean Mass and Standard Error for North Test Cells

<i>Parameter</i>	<i>Exp</i>	<i>Control</i>		<i>High</i>		<i>Low</i>	
		<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>	<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>	<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>
Total Phosphorus	1	0.71 (0.09)	0.37 (0.06)	1.20 (0.16)	0.68 (0.07)	0.32 (0.04)	0.14 (0.02)
	2	1.09 (0.16)	0.52 (0.08)	3.98 (0.60)	2.12 (0.24)	0.30 (0.05)	0.12 (0.02)
Soluble Reactive Phosphorus	1	0.29 (0.06)	0.08 (0.02)	0.51 (0.10)	0.16 (1.04)	0.14 (0.03)	0.03 (0.004)
	2	0.29 (0.03)	0.06 (0.01)	1.11 (0.13)	0.19 (0.01)	0.08 (0.01)	0.01 (0.01)
Total Dissolved Phosphorus	1	0.39 (0.07)	0.16 (0.01)	0.67 (0.12)	0.30 (0.02)	0.18 (0.03)	0.07 (0.01)
	2	0.69 (0.09)	0.23 (0.01)	2.53 (0.33)	1.06 (0.07)	0.19 (0.03)	0.08 (0.02)
Total Kjeldahl Nitrogen	1	24.74 (2.30)	15.90 (1.38)	41.19 (4.46)	34.59 (2.60)	11.23 (1.13)	6.68 (0.86)
	2	27.75 (1.23)	23.32 (1.58)	100.19 (5.13)	86.89 (4.41)	7.51 (0.50)	6.77 (1.29)
Total Dissolved Kjeldahl Nitrogen	1	20.67 (1.70)	14.26 (1.10)	34.97 (3.45)	28.95 (2.29)	9.56 (0.87)	5.17 (0.63)
	2	25.44 (0.90)	22.76 (1.82)	91.14 (4.02)	82.91 (4.07)	6.83 (0.37)	6.38 (1.21)
Ammonia Nitrogen	1	3.76 (0.72)	0.31 (0.03)	6.52 (1.27)	0.91 (0.13)	1.78 (0.34)	0.26 (0.03)
	2	3.96 (0.56)	0.80 (0.18)	14.47 (2.15)	3.97 (0.63)	1.08 (0.16)	0.45 (0.13)
Nitrate-Nitrite Nitrogen	1	0.44 (0.21)	0.12 (0.05)	0.76 (0.36)	0.16 (0.02)	0.20 (0.09)	0.05 (0.01)
	2	0.05 (0.01)	0.04 (0.003)	0.17 (0.02)	0.15 (0.02)	0.01 (0.001)	0.02 (0.01)
Total Dissolved Solids	1	6170.16 (468.61)	4739.80 (370.50)	10396.64 (973.51)	9941.52 (766.47)	2843.45 (244.77)	1966.11 (234.03)
	2	6946.77 (354.09)	6657.46 (446.53)	25274.31 (1703.30)	24276.35 (1328.06)	1924.46 (120.00)	1860.50 (381.39)
Total Suspended Solids	1	32.07 (1.92)	30.82 (2.13)	52.73 (3.97)	59.41 (4.52)	14.30 (0.89)	15.07 (1.81)
	2	34.11 (3.62)	30.82 (2.26)	125.10 (14.86)	108.47 (9.52)	9.63 (0.97)	10.75 (2.00)
Dissolved Organic Carbon	1	314.15 (22.14)	266.58 (20.65)	528.54 (47.16)	544.08 (41.51)	144.59 (11.69)	109.24 (12.99)
	2	367.37 (17.92)	363.77 (25.54)	1328.78 (80.53)	1322.91 (72.75)	100.34 (7.65)	100.92 (20.57)
Total Organic Carbon	1	336.24 (23.78)	274.34 (20.42)	565.97 (50.60)	561.84 (41.34)	154.42 (12.37)	112.41 (13.27)
	2	373.72 (15.90)	363.84 (24.41)	1352.93 (76.12)	1305.44 (75.73)	102.30 (7.14)	99.86 (19.35)
Chloride	1	1306.07 (132.24)	1065.08 (116.80)	2209.89 (116.80)	2593.89 (325.97)	605.02 (66.05)	438.97 (53.66)
	2	1698.94 (102.14)	1903.87 (134.33)	6181.79 (464.31)	6634.88 (413.33)	470.69 (32.87)	506.38 (102.24)

Table A6-2. Mean Mass and Standard Error for North Test Cells (Continued)

<i>Parameter</i>	<i>Exp</i>	<i>Control</i>		<i>High</i>		<i>Low</i>	
		<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>	<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>	<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>
Calcium	1	736.11 (35.12)	594.58 (30.39)	1232.14 (87.85)	1248.42 (74.35)	334.91 (19.55)	278.91 (33.61)
	2	807.79 (33.20)	645.93 (49.10)	2945.01 (193.50)	2635.01 (139.97)	231.48 (9.27)	206.24 (47.11)
Potassium	1	95.20 (11.20)	75.82 (9.51)	161.16 (21.14)	159.53 (17.94)	43.39 (5.29)	30.00 (3.56)
	2	123.07 (10.38)	145.35 (14.04)	439.79 (38.54)	464.85 (46.66)	33.23 (4.17)	44.63 (10.67)
Magnesium	1	205.72 (12.63)	176.27 (13.07)	274.71 (20.55)		205.72 (12.63)	
	2	229.10 (11.11)	234.58 (16.90)	526.33 (35.89)		233.87 (11.11)	
Sodium	1	1014.03 (116.32)	753.79 (100.39)	1725.80 (219.08)		460.80 (215.85)	
	2	1241.15 (99.56)	1311.74 (109.06)	4481.19 (415.94)		340.45 (33.44)	
Silica	1	217.81 (19.54)	155.68 (16.57)	367.95 (38.85)		98.57 (9.60)	
	2	223.42 (6.48)	208.39 (14.15)	808.79 (37.20)		61.18 (3.79)	
Sulfate	1	397.12 (31.89)	387.80 (27.97)	661.87 (64.67)	866.84 (66.18)	178.40 (15.56)	146.19 (16.98)
	2	562.69 (60.07)	483.70 (42.57)	2101.71 (239.55)	1848.52 (158.75)	165.63 (15.47)	115.11 (25.03)
Manganese	1	0.16 (0.01)	0.24 (0.03)	0.27 (0.02)		0.07 (0.004)	
	2	0.21 (0.03)	0.34 (0.05)	0.75 (0.12)		0.06 (0.01)	
Iron	1	0.43 (0.02)	0.43 (0.04)	0.69 (0.04)		0.19 (0.01)	
	2	0.56 (0.04)	0.48 (0.03)	2.06 (0.17)		0.15 (0.01)	
Aluminum	1	0.25 (0.03)	0.58 (0.16)	0.38 (0.04)	1.65 (0.52)	0.11 (0.01)	0.82 (0.30)
	2	0.20 (0.03)	0.16 (0.01)	0.73 (0.11)	0.55 (0.05)	0.06 (0.01)	0.07 (0.01)

Table A6-3. Mean Concentration and Standard Error for South Test Cells

<i>Parameter</i>	<i>Exp</i>	<i>Inflow (mg/L)</i>	<i>Out flow (mg/L)</i>		
			<i>Control</i>	<i>High</i>	<i>Low</i>
Total Phosphorus	1	0.029 (0.006)	0.034 (0.005)	0.033 (0.009)	0.028 (0.004)
Soluble Reactive Phosphorus	1	0.0053 (0.0004)	0.0061 (0.0006)	0.0048 (0.0003)	0.0044 (0.0002)
Total Dissolved Phosphorus	1	0.0178 (0.0029)	0.0208 (0.0028)	0.028 (0.0048)	0.0163 (0.0025)
Total Kjeldahl Nitrogen	1	1.994 (0.046)	1.897 (0.036)	1.951 (0.060)	1.822 (0.080)
Total Dissolved Kjeldahl Nitrogen	1	1.966 (0.039)	1.811 (0.049)	1.845 (0.071)	1.962 (0.076)
Ammonia	1	0.087 (0.008)	0.045 (0.004)	0.049 (0.006)	0.040 (0.005)
Nitrate-Nitrite	1	0.074 (0.009)	0.005 (0.0004)	0.007 (0.002)	0.005 (0.0003)
Total Dissolved Solids	1	636.6 (14.0)	572.6 (14.3)	568.0 (15.0)	535.3 (20.7)
Total Suspended Solids	1	2.8 (0.3)	3.7 (0.4)	3.3 (0.5)	3.6 (0.4)
Dissolved Organic Carbon	1	35.03 (0.73)	33.63 (0.90)	34.92 (1.11)	32.25 (1.72)
Total Organic Carbon	1	35.72 (0.63)	33.99 (0.87)	35.84 (1.16)	33.03 (1.70)
Chloride	1	156.1 (4.11)	156.3 (3.7)	156.8 (4.8)	150.1 (6.9)
Calcium	1	79.5 (1.0)	60.8 (2.8)	54.5 (2.4)	51.8 (2.0)
Potassium	1	10.41 (0.26)	10.13 (0.33)	11.02 (0.39)	9.21 (0.66)
Magnesium	1	23.9 (0.4)	23.9 (0.6)	23.4 (0.7)	22.9 (1.0)
Sodium	1	114.8 (3.6)	113.3 (3.8)	115.6 (5.0)	111.0 (6.4)
Silica	1	19.1 (1.3)	17.3 (1.0)	19.2 (1.3)	10.7 (0.9)
Sulfate	1	46.4 (1.5)	45.5 (1.3)	45.7 (1.8)	42.6 (2.4)
Alkalinity	1	266.5 (3.6)	221.5 (7.7)	203.8 (8.4)	194.6 (7.0)
Manganese (µg/L)	1	12.3 (1.7)	6.0 (1.4)	5.5 (1.9)	5.0 (1.1)

Table A6-3. Mean Concentration and Standard Error for South Test Cells (Continued)

<i>Parameter</i>	<i>Exp</i>	<i>Inflow (mg/L)</i>	<i>Out flow (mg/L)</i>		
			<i>Control</i>	<i>High</i>	<i>Low</i>
Aluminum ($\mu\text{g/L}$)	1	19.2 (2.6)	61.5 (52.1)	10.7 (2.0)	13.2 (2.2)
Zinc ($\mu\text{g/L}$)	1	5.0 (1.0)	14.5 (1.9)	14.8 (3.0)	27.2 (3.4)
Total Molybdenum ($\mu\text{g/L}$)	1	2.3 (0.4)	3.9 (1.2)	2.9 (0.8)	4.2 (2.1)

Table A6-4. Mean Mass and Standard Error for South Test Cells

Parameter	Exp	Control		High		Low	
		Inflow (g/m ² /yr)	Outflow (g/m ² /yr)	Inflow (g/m ² /yr)	Outflow (g/m ² /yr)	Inflow (g/m ² /yr)	Outflow (g/m ² /yr)
Total Phosphorus	1	0.26 (0.05)	0.24 (0.02)	0.47 (0.08)	0.51 (0.09)	0.12 (0.02)	0.10 (0.01)
Soluble Reactive Phosphorus	1	0.05 (0.004)	0.06 (0.007)	0.09 (0.007)	0.08 (0.005)	0.02 (0.002)	0.01 (0.001)
Total Dissolved Phosphorus	1	0.16 (0.02)	0.17 (0.02)	0.29 (0.03)	0.36 (0.06)	0.07 (0.007)	0.05 (0.005)
Total Kjeldahl Nitrogen	1	18.19 (0.65)	16.43 (1.11)	32.28 (1.17)	30.74 (1.31)	8.19 (0.29)	6.44 (0.53)
Dissolved Total Kjeldahl Nitrogen	1	17.96 (0.62)	15.87 (1.12)	31.86 (1.12)	29.03 (1.23)	8.08 (0.28)	5.99 (0.46)
Ammonia	1	0.81 (0.07)	0.38 (0.04)	1.44 (0.12)	0.73 (0.05)	0.36 (0.03)	0.13 (0.01)
Nitrate-nitrite	1	0.67 (0.06)	0.05 (0.006)	1.19 (0.11)	0.09 (0.02)	0.30 (0.03)	0.02 (0.001)
Total Dissolved Solids	1	5853.84 (207.46)	5025.92 (355.22)	10385.31 (375.54)	8917.01 (283.16)	2634.13 (94.12)	1906.09 (141.29)
Total Suspended Solids	1	25.87 (2.01)	31.52 (2.07)	45.92 (3.59)	52.58 (6.24)	11.65 (0.91)	12.24 (1.07)
Dissolved Organic Carbon	1	323.06 (9.99)	295.09 (21.54)	573.12 (18.13)	550.82 (20.02)	145.37 (4.53)	115.95 (10.18)
Total Organic Carbon	1	324.95 (9.37)	293.50 (21.77)	576.45 (17.03)	557.63 (21.46)	146.22 (4.26)	116.17 (10.12)
Chloride	1	1438.07 (54.23)	1360.79 (90.02)	2551.25 (97.82)	2466.77 (87.67)	647.10 (24.57)	535.19 (41.68)
Calcium	1	727.03 (22.81)	532.53 (32.40)	1289.8 (41.49)	851.15 (29.41)	327.15 (10.37)	182.98 (12.40)
Potassium	1	94.30 (2.87)	88.64 (7.16)	167.27 (5.20)	172.82 (7.23)	42.43 (1.30)	32.99 (3.38)
Magnesium	1	219.20 (7.42)	208.26 (14.00)	388.89 (13.46)	368.27 (12.24)	98.64 (3.37)	81.60 (6.51)
Sodium	1	1052.45 (38.76)	993.09 (79.97)	1866.91 (69.65)	1820.03 (84.25)	473.56 (17.53)	399.57 (36.79)

Table A6-4. Mean Mass and Standard Error for South Test Cells (Continued)

<i>Parameter</i>	<i>Exp</i>	<i>Control</i>		<i>High</i>		<i>Low</i>	
		<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>	<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>	<i>Inflow (g/m²/yr)</i>	<i>Outflow (g/m²/yr)</i>
Silica	1	176.87 (14.51)	150.28 (13.51)	313.96 (25.96)	305.37 (22.73)	79.61 (6.55)	36.97 (2.83)
Sulfate	1	428.03 (19.81)	398.16 (29.69)	759.48 (35.70)	724.17 (26.47)	192.62 (8.97)	152.38 (13.07)
Manganese	1	0.11 (0.01)	0.05 (0.01)	0.20 (0.02)	0.09 (0.02)	0.05 (0.005)	0.02 (0.003)
Iron	1	0.16 (0.04)	0.23 (0.03)	0.29 (0.07)	0.37 (0.06)	0.07 (0.02)	0.13 (0.01)
Aluminum	1	0.18 (0.02)	0.50 (0.24)	0.32 (0.03)	0.16 (0.02)	0.08 (0.008)	0.05 (0.007)

Table A6-5. Water Quality Parameters for the Marsh Dry Out Study

Treatment	Parameter	Startup Phase		Dry Season Reflood		Interim Phase (1)		Wet Season Reflood		Interim Phase (2)	
		Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)
C-N	ALK	102.25	17.6	61.99	6.00	140.22	21.53	180.80	24.96	148.20	12.85
D-N	ALK	122.97	14.32	156.83	17.97	130.27	16.56	240.97	7.94	147.81	9.63
C-P	ALK	140.53	6.94	138.27	1.87	222.75	15.11	260.28	4.60	233.93	12.76
D-P	ALK	154.87	7.61	191.60	8.10	267.68	27.90	291.47	1.28	247.14	14.13
C-N	CA	35.52	6.67	19.98	2.45	45.62	6.59	49.44	9.34	43.38	5.02
D-N	CA	43.53	5.99	63.85	7.98	43.65	4.14	79.49	2.43	44.30	3.68
C-P	CA	50.08	1.88	52.10	0.69	78.41	3.43	86.67	2.42	82.37	3.80
D-P	CA	55.03	2.77	76.87	2.81	95.76	7.76	107.59	1.26	88.70	4.95
C-N	FE	32.93	12.45	6.88	1.15	22.87	4.42	19.35	7.49	23.18	6.00
D-N	FE	54.07	7.4	24.70	8.66	16.88	2.35	42.36	0.81	77.78	31.08
C-P	FE	19.27	7.53	9.62	1.79	39.30	6.36	34.96	2.96	68.64	21.62
D-P	FE	44.43	2.74	25.27	3.99	25.02	3.61	63.14	15.67	112.36	19.02
C-N	MG	12.48	0.53	11.34	0.44	20.53	2.35	28.73	0.93	22.42	1.34
D-N	MG	13.1	0.12	13.78	0.03	18.83	2.65	30.74	0.33	20.55	1.35
C-P	MG	13.5	0.29	13.46	0.10	22.40	2.17	28.39	0.57	21.59	1.39
D-P	MG	13.97	0.22	14.82	0.15	21.61	2.32	29.68	0.48	22.02	1.33
C-N	SO4	30.78	0.86	26.62	0.90	62.04	7.69	66.53	5.88	49.85	3.48
D-N	SO4	34.49	0.26	39.81	1.84	59.44	9.58	87.57	1.47	45.66	3.27
C-P	SO4	29.9	0.55	28.45	0.60	62.70	7.90	71.87	2.87	50.12	3.38
D-P	SO4	32.45	0.56	41.51	1.47	55.61	6.90	93.42	1.79	51.03	3.01
C-N	TOC	21.68	0.39	21.92	0.25	37.31	2.34	41.18	0.79	28.83	2.00
D-N	TOC	22.63	0.67	35.38	4.89	38.83	3.27	44.98	0.28	30.57	2.26
C-P	TOC	23.45	1.29	21.30	1.18	39.46	2.78	42.65	0.62	30.46	2.44
D-P	TOC	27.12	3.23	33.88	1.84	39.94	3.29	46.94	0.66	32.53	2.43
C-N	TSS	3	0	3	0	3	0	3	0	3	0
D-N	TSS	3	0	6	3	3	0	5	1	3	0
C-P	TSS	3	0	3	0	3	0	3	0	3	0
D-P	TSS	3	0	3	0	3	0	3	0	3	0

Table A6-5. Water Quality Parameters for the Marsh Dry Out Study (Continued)

Treatment	Parameter	Startup Phase		Dry Season Reflood		Interim Phase (1)		Wet Season Reflood		Interim Phase (2)	
		Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)	Mean mg L ⁻¹	SE (+/-)
C-N	CL	82.55	3.05	66.49	1.26	145.46	8.95	160.24	4.55	116.74	4.32
D-N	CL	86.07	3.06	64.47	1.98	138.75	9.94	138.70	5.13	115.44	3.85
C-P	CL	86.41	2.35	65.19	1.18	143.05	8.44	155.87	5.27	121.26	4.06
D-P	CL	80.91	3.66	62.68	1.67	133.78	8.83	141.36	6.08	122.95	3.85
C-N	TP	0.036	0.003	0.018	0.001	0.026	0.002	0.026	0.001	0.016	0.001
D-N	TP	0.032	0.004	0.125	0.022	0.021	0.002	0.065	0.006	0.022	0.001
C-P	TP	0.022	0.001	0.018	0.001	0.022	0.001	0.018	0.001	0.021	0.001
D-P	TP	0.034	0.004	0.074	0.005	0.023	0.001	0.048	0.005	0.031	0.001
C-N	TDP	0.022	0.002	0.013	0.000	0.014	0.000	0.014	0.001	0.010	0.000
D-N	TDP	0.018	0.001	0.077	0.015	0.014	0.001	0.023	0.003	0.013	0.000
C-P	TDP	0.016	0.001	0.013	0.000	0.012	0.000	0.011	0.000	0.011	0.000
D-P	TDP	0.019	0.001	0.056	0.005	0.019	0.001	0.030	0.004	0.019	0.000
C-N	SRP	0.010	0.002	0.005	0.000	0.009	0.000	0.007	0.000	0.005	0.000
D-N	SRP	0.008	0.001	0.053	0.013	0.009	0.001	0.012	0.003	0.006	0.000
C-P	SRP	0.005	0.000	0.005	0.000	0.009	0.001	0.007	0.000	0.006	0.000
D-P	SRP	0.008	0.001	0.037	0.004	0.009	0.001	0.020	0.003	0.010	0.000
C-N	TKN	1.33	0.02	1.26	0.02	2.16	0.08	2.34	0.06	1.41	0.06
D-N	TKN	1.36	0.04	1.71	0.11	2.25	0.07	2.76	0.11	1.54	0.06
C-P	TKN	1.25	0.02	1.16	0.02	2.20	0.07	2.20	0.06	1.44	0.06
D-P	TKN	1.33	0.06	1.44	0.06	2.16	0.07	2.39	0.11	1.55	0.06
C-N	NH4	0.01	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.01	0.00
D-N	NH4	0.01	0.00	0.03	0.00	0.02	0.00	0.10	0.03	0.01	0.00
C-P	NH4	0.01	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.01	0.00
D-P	NH4	0.01	0.00	0.03	0.00	0.02	0.00	0.08	0.03	0.01	0.00
C-N	NO2	0.004	0.000	0.004	0.000	0.000	0.004	0.004	0.000	0.004	0.000
D-N	NO2	0.004	0.000	0.006	0.001	0.000	0.004	0.017	0.004	0.004	0.000
C-P	NO2	0.004	0.000	0.004	0.000	0.000	0.004	0.004	0.000	0.004	0.000
D-P	NO2	0.004	0.000	0.006	0.001	0.000	0.004	0.016	0.004	0.004	0.000
C-N	NOX	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00
D-N	NOX	0.01	0.00	0.05	0.02	0.01	0.00	0.05	0.01	0.01	0.00
C-P	NOX	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00
D-P	NOX	0.01	0.00	0.06	0.02	0.01	0.00	0.04	0.01	0.01	0.00

Table A6-6. Mass of All Parameters for the Marsh Dry Out Study

Treatment	Parameter	Startup Phase		Dry Season Reflood		Interim Phase (1)		Wet Season Reflood		Interim Phase (2)	
		Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)
C-N	ALK	21112.43	283.52	13101.07	356.92	22212.52	506.97	34181.60	1355.82	35599.17	1776.85
D-N	ALK	18725.26	0.98	22332.97	358.63	21615.32	321.08	50536.78	2185.79	36170.33	1872.65
C-P	ALK	23346.33	114.80	21547.44	193.52	34095.69	545.61	50777.03	2257.84	55386.23	2709.69
D-P	ALK	24153.80	44.42	29857.64	81.62	41525.17	808.45	67625.68	3670.53	58134.16	2905.38
C-N	CA	7482.70	105.79	4460.33	134.84	6833.36	109.46	7396.82	29.42	6929.46	54.52
D-N	CA	6626.28	0.12	9030.70	162.38	7266.39	67.44	10668.36	208.07	7724.07	133.56
C-P	CA	8118.14	31.00	7891.45	79.93	11771.39	131.15	13220.90	26.30	12934.75	72.23
D-P	CA	8583.99	16.15	11881.21	10.83	14810.82	219.46	15618.00	91.71	13845.91	115.42
C-N	FE	8694.17	188.32	3067.30	228.03	3201.23	50.44	2995.16	12.44	3166.21	64.36
D-N	FE	8228.19	0.21	3462.67	68.54	2852.44	34.56	5747.96	100.91	10429.54	691.02
C-P	FE	4776.55	97.95	2417.32	136.80	5267.00	80.37	5641.48	61.68	9247.51	392.55
D-P	FE	6927.24	18.30	3797.67	22.64	3912.81	34.04	10813.43	196.36	15347.46	417.37
C-N	MG	2072.01	9.34	1883.49	17.31	3285.77	77.01	4297.30	20.77	3606.67	28.92
D-N	MG	2000.55	0.85	2064.77	5.09	3004.66	74.62	4643.89	0.17	3113.53	19.83
C-P	MG	2131.02	5.79	2090.70	13.51	3492.83	72.18	4205.45	28.30	3454.32	29.02
D-P	MG	2176.03	4.27	2319.22	9.25	3350.88	69.16	4213.22	40.22	3448.42	35.87
C-N	SO4	4957.83	16.60	4677.43	51.72	8934.60	190.93	10134.52	41.00	8181.88	77.67
D-N	SO4	5266.05	2.06	5988.13	9.96	9514.65	271.19	11531.52	262.61	7429.43	118.99
C-P	SO4	4700.76	11.80	4645.95	47.55	9358.62	219.66	10562.39	91.23	8126.37	65.27
D-P	SO4	5058.46	10.74	6361.52	9.71	8751.88	190.26	12275.08	278.21	8109.22	107.32
C-N	TOC	3389.31	9.22	3451.05	33.53	5639.06	88.46	6096.77	41.33	4640.54	54.73
D-N	TOC	3453.12	1.05	5259.12	21.40	6129.63	84.01	6293.30	77.75	4910.32	61.81
C-P	TOC	3875.60	18.38	3534.55	36.26	5871.64	98.55	6323.63	40.87	4869.21	66.99
D-P	TOC	4230.02	4.27	5203.11	8.11	6198.35	84.72	6649.34	65.77	5100.92	75.83
C-N	TSS	460.84	1.22	461.89	0.81	457.94	0.95	458.17	0.42	462.17	0.93
D-N	TSS	458.08	0.18	880.80	19.09	511.95	11.91	628.18	11.73	465.82	3.42
C-P	TSS	455.29	0.66	473.68	1.60	460.80	1.15	455.37	1.04	456.47	0.93
D-P	TSS	467.47	0.98	461.51	0.41	454.10	0.60	452.50	0.13	475.63	3.61

Table A6-6. Mass of All Parameters for the Marsh Dry Out Study (Continued)

Treatment	Parameter	Startup Phase		Dry Season Reflood		Interim Phase (1)		Wet Season Reflood		Interim Phase (2)	
		Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)	Mean mg day ⁻¹	SE (+/-)
C-N	CL	12428.59	173.45	10500.06	139.54	22758.38	812.23	23610.16	603.37	20034.65	527.70
D-N	CL	13074.23	170.52	10250.59	230.44	20691.22	1058.16	18962.43	606.41	19627.35	434.87
C-P	CL	12977.96	123.98	10251.31	123.68	22312.38	778.44	22666.83	690.87	20090.35	439.96
D-P	CL	12464.09	92.49	10041.16	216.97	20467.73	841.14	19107.95	720.09	20481.63	388.27
C-N	TP	5.829	0.145	2.851	0.066	4.099	0.123	3.838	0.127	2.364	0.036
D-N	TP	4.968	0.048	20.179	0.982	3.347	0.136	7.475	0.700	3.013	0.058
C-P	TP	3.358	0.025	2.866	0.043	3.328	0.040	2.772	0.064	2.905	0.068
D-P	TP	5.387	0.047	10.738	0.424	3.597	0.064	5.536	0.447	3.902	0.052
C-N	TDP	3.264	0.074	2.134	0.047	2.142	0.024	2.048	0.061	1.551	0.023
D-N	TDP	2.569	0.060	12.742	0.625	2.366	0.115	2.774	0.207	1.954	0.026
C-P	TDP	2.357	0.057	1.960	0.037	1.885	0.013	1.681	0.035	1.624	0.022
D-P	TDP	2.908	0.046	8.849	0.381	2.924	0.052	3.596	0.242	2.877	0.033
C-N	SRP	1.378	0.077	0.782	0.016	1.314	0.024	1.049	0.025	0.730	0.010
D-N	SRP	1.096	0.034	8.468	0.465	1.402	0.087	1.313	0.174	0.747	0.013
C-P	SRP	0.810	0.015	0.760	0.012	1.310	0.033	1.036	0.020	0.779	0.011
D-P	SRP	1.210	0.025	5.543	0.320	1.428	0.033	2.082	0.234	1.309	0.020
C-N	TKN	203.41	1.19	193.94	1.96	335.72	6.76	348.01	6.28	259.35	7.03
D-N	TKN	204.97	1.61	293.98	7.95	344.29	6.04	370.11	13.05	280.87	5.01
C-P	TKN	187.62	1.32	180.76	1.80	335.48	5.96	326.10	7.29	262.36	5.08
D-P	TKN	201.21	2.81	233.07	4.16	326.43	5.91	319.83	11.38	276.27	5.03
C-N	NH4	2.55	0.19	2.32	0.08	2.63	0.09	3.20	0.14	2.12	0.06
D-N	NH4	2.06	0.04	5.41	0.41	3.47	0.12	6.76	2.47	2.08	0.07
C-P	NH4	1.54	0.04	1.98	0.05	2.33	0.07	1.98	0.06	1.93	0.06
D-P	NH4	1.50	0.01	4.47	0.29	2.37	0.08	5.26	1.89	1.98	0.05
C-N	NO2	0.613	0.002	0.632	0.002	0.619	0.002	0.611	0.001	0.656	0.009
D-N	NO2	0.610	0.001	0.839	0.033	0.646	0.010	1.405	0.322	0.613	0.001
C-P	NO2	0.605	0.003	0.622	0.002	0.617	0.003	0.625	0.003	0.609	0.001
D-P	NO2	0.622	0.001	0.695	0.026	0.616	0.003	1.154	0.258	0.601	0.004
C-N	NOX	1.48	0.07	0.78	0.01	0.81	0.02	0.80	0.02	1.01	0.09
D-N	NOX	1.65	0.05	4.38	1.14	1.01	0.12	6.00	1.05	1.16	0.06
C-P	NOX	0.79	0.01	0.77	0.01	0.80	0.01	0.91	0.03	1.07	0.07
D-P	NOX	0.73	0.01	3.52	1.35	0.81	0.03	3.80	0.83	2.06	0.06