

Appendix B. Table 2. 2.4-D - Phase II APMP Freshwater Results at Stone Lake Wildlife Refuge, 2003.

StationCode	StationName	CollectionDate	MediumName	ApplicationTime	Units	SampleTypeCode	StationTreatment	Species	TestDuration	Alkalinity mg/L	Chlorophyll a mg/m3	Conductivity µS/cm	DO mg/L	Hardness mg/L	pH	Total Kjeldahl Nitrogen mg/L	Total Nitrogen mg/L	Total Phosphorus mg/L	TSS mg/L	2,4-D ug/L	Nonylphenol ug/L	Nonylphenolethoxyate ug/L	Cell Count individuals	Cell Count - Standard Error individuals	Coefficient of Variation %	Reproduction neonates/adult	Reproduction - Standard Error NR	Percent Survival %	Percent Survival - Standard Error NR		
SL2-01	Stone Lake Wildlife Refuge	9/8/2003	Freshwater	Pre-App		Grab	Treated																								
SL2-02	Stone Lake Wildlife Refuge	9/8/2003	Freshwater	Pre-App		Grab	Treated			19																					
						Grab				18																					
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	Pre-App		Grab	Treated			77.8						0.57	0.62	0.158	12.6	0.14	1.24	2.04									
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	Pre-App		Grab	Treated	Ceriodaphnia dubia	WQ	84		188	8.5	80	7.65																
Control	Lab Control		Freshwater	NA		Grab	Reference	Ceriodaphnia dubia	4 days						7.65												100	0			
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	Pre-App		Grab	Treated	Ceriodaphnia dubia	4 days						7.65												100	0			
Control	Lab Control		Freshwater	NA		Grab	Reference	Ceriodaphnia dubia	7 days						7.65											21.7	2.68	100			
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	Pre-App		Grab	Treated	Ceriodaphnia dubia	7 days						7.65											29.2	1.63	100			
Control	Lab Control		Freshwater	NA		Grab	Reference	Pimephales promelas	4 days						7.94													100	0		
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	Pre-App		Grab	Treated	Pimephales promelas	4 days						7.65													SIGM 55	20.6		
Control	Lab Control		Freshwater	NA		Grab	Reference	Selenastrum capricornutum	4 days						8.30								1425000	12	23.9						
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	Pre-App		Grab	Treated	Selenastrum capricornutum	4 days						7.65								1724000	16.5	8.2						
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Grab	Treated			78.8					77.8		0.78	0.84	0.176	18.7	20	ND	22.6								
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Duplicate	Treated																								
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	FieldBlank	Treated			-3					-1		0.25	0.29	-0.015	-1	27.5	1.25	3.92								
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Duplicate	Treated	Ceriodaphnia dubia	WQ	90		122	8.4	112	7.78																
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Grab	Treated	Ceriodaphnia dubia	WQ	84		189	8.4	72	7.81																
Control	Lab Control		Freshwater	NA		Grab	Reference	Ceriodaphnia dubia	4 days						7.65													100	0		
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Duplicate	Treated	Ceriodaphnia dubia	4 days						7.78													100	0		
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Grab	Treated	Ceriodaphnia dubia	4 days						7.81													100	0		
Control	Lab Control		Freshwater	NA		Grab	Reference	Ceriodaphnia dubia	7 days						7.65												21.7	2.68	100		
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Duplicate	Treated	Ceriodaphnia dubia	7 days						7.78													28.7	0.63	100	
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Grab	Treated	Ceriodaphnia dubia	7 days						7.81													28.3	1.08	100	
Control	Lab Control		Freshwater	NA		Grab	Reference	Pimephales promelas	4 days						7.94														100	0	
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Duplicate	Treated	Pimephales promelas	4 days						7.78														SIGM 85	6.5	
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Grab	Treated	Pimephales promelas	4 days						7.81														92.5	4.5	
Control	Lab Control		Freshwater	NA		Grab	Reference	Selenastrum capricornutum	4 days						8.30								1425000	12	23.9						
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Duplicate	Treated	Selenastrum capricornutum	4 days						7.78								1386000	10.6	5.3						
SL2-01	Stone Lake Wildlife Refuge	9/9/2003	Freshwater	2.5	hours	Grab	Treated	Selenastrum capricornutum	4 days						7.81								1430000	20.7	10.4						