

Table 9. Contaminant Data for Pool 6 of the Upper Mississippi River

Record #		470	213	469	472	214	471				
River Mile		728.2	728.0	728.0	726.5	726.4	726.4	726.4	726.3	726.3	
Location		LOWER APPRO 5A	LOWER APPRO 5A	LOWER APPRO 5A	WINONA COMM	ISLAND 71	WINONA COMM	WINONA CH 1 - CT LABS	WINONA COMM	WINONA CH 2 - CT LABS	
Year		1989	1980	1989	1989	1974	1989	2008	2002	2008	
System		1	1	1	1	1	1	1	1	1	
Habitat Type		1	1	1	2	1	2	2	2	2	
Pool		6	6	6	6	6	6	6	6	6	
Sam. Gear		1	1	1	1	1	1	1	1	1	
Sam. Depth		10	10	10	10	10	10	10	10	10	
Data Cit.		COE	COE	COE	COE	COE	COE	COE	COE	COE	
C H C I S	ug/kg	a-BHC			< 0.11		< 0.73		<0.12		
	ug/kg	b-BHC			< 0.22		< 1.46		<0.12		
	ug/kg	BHC			< 0.33		< 2.2		<0.12		
	ug/kg	g-BHC (lindane)			< 0.15		< 0.98		<0.12		
	ug/kg	Heptachlor			< 0.11		< 0.73		<0.08		
	ug/kg	Aldrin			< 0.15		< 0.98				
	ug/kg	Heptachlorepoide			< 0.18		< 1.22		<1.48		
	ug/kg	Endosulfan I			< 0.18		< 1.22				
	ug/kg	Dieldrin			< 0.18	< 10	< 1.22	<3.2	<0.12	<3.2	
	ug/kg	4,4'-DDE			< 0.15	10	< 0.98	<3.5	<0.12	<3.5	
	ug/kg	Endrin			< 0.33	< 10	< 2.2		<0.12		
	ug/kg	Endosulfan II			< 0.36		< 2.44				
	ug/kg	4,4'-DDD			< 0.4	< 10	< 2.68	<3.7	<0.12	<3.7	
	ug/kg	Endrinaldehyde			< 0.4		< 2.68				
	ug/kg	Sulfan sulfate			< 0.4		< 2.68				
ug/kg	4,4'-DDT			< 0.47	< 10	< 3.17	<4.2	<0.24	<4.2		
ug/kg	Methoxychlor			< 0.8		< 5.37					
ug/kg	Endrinetone			< 0.4		< 2.68					
ug/kg	Chlorodane			< 2.18	< 10	< 14.64		<0.36			
ug/kg	Toxaphene			< 2.18		< 14.64					
M E T A L S	mg/kg	Ag (silver)									
	mg/kg	Al (aluminum)									
	mg/kg	As (arsenic)	< 0.76	0	0.85	2.4	< 1	0.8 3.1	0.885 3.1		
	mg/kg	B (boron)									
	mg/kg	Ba (barium)		20							
	mg/kg	Be (beryllium)									
	mg/kg	Cd (cadmium)	< 1.2	< 10	< 1.1	< 1.6	0.7	< 1.1	<1.0	0.11	<1.0
	mg/kg	Cr (chromium)	4.3	< 10	5.1	11.6	5	4.2 25.7		3.7 8.6	
	mg/kg	Cu (copper)	2.2	< 10	2	6.1	4	< 1.4	16.3	3.12	7.1
	mg/kg	Fe (iron)		2600							
	mg/kg	Hg (mercury)	< 0.13	0	< 0.12	< 0.17	0.3	< 0.12	<0.10	<0.006	<0.10
	mg/kg	Mg (magnesium)									
	mg/kg	Mn (manganese)	205	260	323	280		173 567		227 393	
	mg/kg	Mo (molybdenum)									
	mg/kg	Ni (nickel)	4.9	< 10	6.2	12.9	4	4.7 15		5.92 6.8	
mg/kg	Pb (lead)	0.96	< 10	1	3.5	< 7	0.9 3.7	<0.47	2.7		
mg/kg	Sb (antimony)										
mg/kg	Se (selenium)	< 0.88		< 0.87	< 1.2		< 0.83				
mg/kg	Sn (tin)										
mg/kg	Sr (strontium)										
mg/kg	Ti (titanium)										
mg/kg	Zn (zinc)	11.2	7.4	22.4	31.2	13	10.7 29.7		12 17.8		
mg/kg	V (vanadium)										
P C B ' S	ug/kg	Aroclor-1006			< 2.18		< 14.64	<31		<31	
	ug/kg	Aroclor-1221			< 2.18		< 14.64				
	ug/kg	Aroclor-1232			< 2.18		< 14.64				
	ug/kg	Aroclor-1242			< 2.18		< 14.64				
	ug/kg	Aroclor-1248			< 2.18		< 14.64	<29		<29	
	ug/kg	Aroclor-1254			< 4.55		< 3.05	<10		<10	
	ug/kg	Aroclor-1260			< 4.55		< 3.05	<19		<19	
	ug/kg	Total PCB's					0				
P A R T I C L E S I Z E % F I N E R	D	c o a r s e	3 in				100				
			1 1/2				100				
			3/4				100				
			3/8				100				
			4			95.6	100	99.2	93.89	98.7	94.26
	N	m e d i u m	8				99				
			10			92.4	99	97.0	88.27	97.1	84.32
			16		96.0	86.6	96.0	88.1		92.0	
			18								
			20						75.5		68.31
	S	f i n e	30			55.9		50.5			
			40		31.0		46.0		33.47		33.59
			50			55.9		50.5		171.0	
			60						19.13		17.5
			70							40.0	
F I N E	f i n e	80			30.2		10.9	15.55		9.94	
		100		0.0	21.5	0.0	0.3	14.9	0.6	7.95	
		140					0.3		0.5		
		200		0.0		0.0	0.3	12.59	0.3	4.16	
		230						9.92		3.12	
P A R T I C L E S I Z E	C L A	270					0.2				
		0.20 mm		0.0		0.0	0.2				
		0.05 mm		0.0		0.0	0.1				
M I S C	%	Total Organic Carb			1.05		0.033 13000		53000		
	mg/kg	Chem Oxy Demand		2600		404					
	mg/kg	Kjedahl Nitrogen		260		270		1200		3900	
	mg/kg	Total Phosph				155		3900		1200	
	mg/kg	Oil and Grease									
	mg/kg	Cyanide, Total	< 0.63		< 0.62	< 0.86		< 0.59	<0.47	<0.10	<.50
	mg/kg	Ammonia	0.25		< 0.25	34		2.4 170		380	
mg/l	Ammonia Elutriate										
%	Moisture			19.7	41.9		15.9 25		19.9 30.3		
%	Total Solids	79.3		80.3	58.1		84.1 75		80.1 69.7		
%	Volatile Solids	0.4		0.4	4		0.5 0.1107		0.41 0.1139		

Table 9. Contaminant Data for Pool 6 of the Upper Mississippi River

Record #			714	215	216	477	478	217					
River Mile			726.2	726.2	726.2	726.0	726.0	726.0					
Location			R-Bay S of Crooked Slough	WINONA SBH 1 - CT LABS	WINONA SBH 2 - CT LABS	WINONA COMM	WINONA WINONA SM BOAT	WINONA WINONA SM BOAT	WINONA WINONA SM BOAT				
Year			1985	2008	2008	1979	1979	1980	1989	1989	1980		
System			1	1	1	1	1	1	1	1	1		
Habitat Type			3	2	2	2	2	2	2	2	2		
Pool			6	6	6	6	6	6	6	6	6		
Sam. Gear			2	10	10	1	1	1	1	1	1		
Sam. Depth			10	10	10	10	10	10	10	10	10		
Data Cit.			FWS	COE	COE	COE	COE	COE	COE	COE	COE		
C H C ' S	ug/kg	a-BHC	< 10										
	ug/kg	b-BHC	< 10										
	ug/kg	BHC	< 0.26 < 1.44 < 0.26										
	ug/kg	g-BHC (lindane)	< 0.26 < 2.16 < 0.39										
	ug/kg	Heptachlor	< 0.26 < 0.72 < 0.13										
	ug/kg	Aldrin	< 0.96 < 0.17										
	ug/kg	Heptachlorepoixide	< 1.2 < 0.22										
	ug/kg	Endosulfan I	< 1.2 < 0.22										
	ug/kg	Dieldrin	< 10	<3.2	<3.2	0	0	< 0.51	< 1.2	< 0.22	0.21		
	ug/kg	4,4'-DDE	< 10	<3.5	<3.5	0	0.3	< 0.51	< 0.96	< 0.17	< 0.2		
	ug/kg	Endrin	< 10			0	0	< 0.51	< 2.16	< 0.39	< 0.2		
	ug/kg	Endosulfan II							< 2.4	< 0.43			
	ug/kg	4,4'-DDD	< 10	<3.7	<3.7	0	0.2	< 0.51	< 2.64	< 0.48	0.59		
	ug/kg	Endrinaldehyde							< 2.64	< 0.48			
	ug/kg	Sulfan sulfate							< 2.64	< 0.48			
	ug/kg	4,4'-DDT	< 10	<4.2	<4.2	0	1.5	< 0.51	< 3.12	< 0.56	< 0.4		
	ug/kg	Methoxychlor							< 5.28	< 0.95			
ug/kg	Endrinetone							< 2.64	< 0.48				
ug/kg	Chlorodane	< 10			0	0	< 0.26	< 14.4	< 2.6	0.63			
ug/kg	Toxaphene							< 14.4	< 2.6				
M E T A L S	mg/kg	Ag (silver)	< 0.4										
	mg/kg	Al (aluminum)	10800										
	mg/kg	As (arsenic)	< 7	1.1	4.4	0	0	1.1	0.79	2.7			
	mg/kg	B (boron)	5										
	mg/kg	Ba (barium)	152										
	mg/kg	Be (beryllium)	0.61										
	mg/kg	Cd (cadmium)	0.8	<1.0	<1.0	< 10	< 10	0.38	< 1.1	< 2	1.58		
	mg/kg	Cr (chromium)	25	6.6	23.5	< 10	< 10	7.3	6.6	16.3	35		
	mg/kg	Cu (copper)	18	4.8	26.9	< 10	< 10	3.7	3.1	8.2	8.88		
	mg/kg	Fe (iron)	20600										
	mg/kg	Hg (mercury)	0.06	<0.10	<0.10	0	0	< 0.05	< 0.12	< 0.21	< 0.01		
	mg/kg	Mg (magnesium)	5050										
	mg/kg	Mn (manganese)	< 1190	311	1340	390	340	269	292	654			
	mg/kg	Mo (molybdenum)	2										
	mg/kg	Ni (nickel)	19	5.5	17.6	< 10	< 10	5.8	6	11.3	22.8		
	mg/kg	Pb (lead)	20	4.8	<1.0	< 10	20	4.8	2.4	14.7	3.44		
	mg/kg	Sb (antimony)	< 4										
mg/kg	Se (selenium)	< 10											
mg/kg	Sn (tin)	< 2											
mg/kg	Sr (strontium)	26											
mg/kg	Ti (titanium)	20											
mg/kg	Zn (zinc)	81.2	15.2	78.9	20	30	17.3	15.3	48.8	66.2			
mg/kg	V (vanadium)	< 19											
P C B ' S	ug/kg	Aroclor-1006	<31 <31										
	ug/kg	Aroclor-1221	< 5.1 < 14.4 < 2.6										
	ug/kg	Aroclor-1232	< 5.1 < 14.4 < 2.6										
	ug/kg	Aroclor-1242	< 5.1 < 14.4 < 2.6										
	ug/kg	Aroclor-1248	<29	<29				< 5.1 < 14.4 < 2.6					
	ug/kg	Aroclor-1254	<10	<10				< 5.1 < 30 < 5.43					
	ug/kg	Aroclor-1260	<19	<19				< 5.1 < 30 < 5.43					
	ug/kg	Total PCB's	0			13	19				24.9		
T I C K L E	S I Z E	F I N E	3 in										
			1 1/2										
			3/4										
			3/8										
			4		100	100	96	100		100	100	100	
			8										
			10		97.96	96.16	92	100		99.7	99.0	100	
			16										
	P A R S I L	C L A	F I N E	18									
				20		90.11	91.04	83.0	100		72.8	95.3	
				30		63.91	87.99	63.0	91.0			91.0	
				40									
				50		97.17	82.43				72.8	95.3	
				60									
				70		20.14	75.2	36.0	35.0		23.3	82.0	
P A R S I L	C L A	F I N E	80		16.97	73.38				1.4	18.8	48.0	
			100										
			140										
			200		7.75	61.71	26.0	19.0		0.7	12.0	38.0	
			230		6.24	46.26							
P A R S I L	C L A	F I N E	270										
			0.20 mm			14.0	13.0		0.5	9.5			
			0.05 mm			6.0	5.0		0.5	5.7	14.0		
M I S C	%	Total Organic Car		2500	18000			0.4	2.26				
		Chem Oxy Demand											
		Kjedahl Nitrogen		590	4200	24000	24000			14000			
	mg/kg	Total Phosph		310	1600	820	460			1070			
		Oil and Grease											
		Cyanide, Total		<0.49	<1.2			< 0.07 < 0.62 < 1.1					
		Ammonia		15	130			0.19 3.7 53					
%	Ammonia Elutriate												
	Moisture		28.3	70.5			24 19.2 52.9						
	Total Solids		71.7	29.5			76 80.8 47.1						
	Volatile Solids		0.0157	0.0844			1.46 0.7 6.7						

Table 9. Contaminant Data for Pool 6 of the Upper Mississippi River

Record #		218	219	473	220	221	474	222	715		
River Mile		726.1	724.2	723.9	723.7	723.4	723.4	723.3	722.7	722.7	
Location		WINONA SM BOAT	AB LOW. WINONA RR BR	AB LOW. WINONA RR BR	BW LOW. WINONA RR BR	BW LOW. WINONA RR BR	BW LOW. WINONA RR BR	BW LOW. WINONA RR BR	GRAVEL POINT	L-Bay Behind U-shaped Isl	
Year		2002	1981	1981	1989	1982	1982	1989	1981	1985	
System		1	1	1	1	1	1	1	1	1	
Habitat Type		2	1	1	1	1	1	1	1	3	
Pool		6	6	6	6	6	6	6	6	6	
Sam. Gear		1	1	1	1	1	1	1	1	2	
Sam. Depth			10	10	10	10	10	10	10	10	
Data Cit.		COE	COE	COE	COE	COE	COE	COE	COE	FWS	
CHCS	ug/kg	a-BHC	<0.12					< 0.07		< 10	
	ug/kg	b-BHC	<0.12					< 0.15		< 10	
	ug/kg	BHC	<0.12					< 0.22			
	ug/kg	g-BHC (lindane)	<0.12					< 0.1		< 10	
	ug/kg	Heptachlor	<0.08					< 0.07		< 10	
	ug/kg	Aldrin						< 0.1			
	ug/kg	Heptachlorepoide	<1.48					< 0.12			
	ug/kg	Endosulfan I						< 0.12			
	ug/kg	Dieldrin	<0.12	< 0.1	< 0.1	< 0.15	< 0.1	< 0.1	< 0.12	< 0.1	< 10
	ug/kg	4,4'-DDE		< 0.1	< 0.1	< 0.12	< 0.1	< 0.1	< 0.1	< 0.1	< 10
	ug/kg	Endrin	<0.12	< 0.1	< 0.1	< 0.27	< 0.1	< 0.1	< 0.22	< 0.1	< 10
	ug/kg	Endosulfan II				< 0.3			< 0.25		
	ug/kg	4,4'-DDD	<0.12	< 0.1	< 0.1	< 0.33	< 0.1	< 0.1	< 0.27	< 0.1	< 10
	ug/kg	Endrinaldehyde				< 0.33			< 0.27		
	ug/kg	Sulfan sulfate				< 0.33			< 0.27		
ug/kg	4,4'-DDT	<0.24	< 0.1	< 0.1	< 0.4	< 0.1	< 0.1	< 0.32	< 0.1	< 10	
ug/kg	Methoxychlor				< 0.67			< 0.54			
ug/kg	Endrinetone				< 0.33			< 0.27			
ug/kg	Chlorodane	<0.36	< 1	< 1	< 1.82	< 1	< 1	< 1.48	< 1	< 10	
ug/kg	Toxaphene				< 1.82			< 1.48			
METALS	mg/kg	Ag (silver)								< 0.4	
	mg/kg	Al (aluminum)								9670	
	mg/kg	As (arsenic)	2.01	0	0	1.4	1.3	2.8	1.5	0	< 7
	mg/kg	B (boron)									4
	mg/kg	Ba (barium)		40	40					50	123
	mg/kg	Be (beryllium)									0.56
	mg/kg	Cd (cadmium)	0.59	< 1	< 1	< 1.1	< 0.18	< 0.2	< 1.1	< 1	0.8
	mg/kg	Cr (chromium)	10.1	< 10	< 10	6.6	3.7	7.9	9.5	< 10	25
	mg/kg	Cu (copper)	9.48	< 10	< 10	7.3	3	5.9	7.3	< 10	19
	mg/kg	Fe (iron)		3400	2900		7100	8800		2800	20700
	mg/kg	Hg (mercury)	0.0094	< 0.01	< 0.01	< 0.12	0.01	0.018	< 0.12	< 0.01	0.07
	mg/kg	Mg (magnesium)									5060
	mg/kg	Mn (manganese)	744	390	400	582			840	450	< 857
	mg/kg	Mo (molybdenum)									2
	mg/kg	Ni (nickel)	11.8	< 10	< 10	7.2	6	11	10.9	< 10	18
mg/kg	Pb (lead)	6.81	< 10	< 10	0.98	2.4	4	1.5	< 10	21	
mg/kg	Sb (antimony)									< 4	
mg/kg	Se (selenium)				< 0.86			< 0.86		< 10	
mg/kg	Sn (tin)									< 2	
mg/kg	Sr (strontium)									27.7	
mg/kg	Ti (titanium)									20	
mg/kg	Zn (zinc)	39.2	11	10	18.6	12	17	25.4	11	75	
mg/kg	V (vanadium)									< 17	
PCB'S	ug/kg	Aroclor-1006								< 1.82	< 1.48
	ug/kg	Aroclor-1221								< 1.82	< 1.48
	ug/kg	Aroclor-1232								< 1.82	< 1.48
	ug/kg	Aroclor-1242								< 1.82	< 1.48
	ug/kg	Aroclor-1248								< 1.82	< 1.48
	ug/kg	Aroclor-1254								< 3.8	< 3.08
	ug/kg	Aroclor-1260								< 3.8	< 3.08
	ug/kg	Total PCB's	0	0	0	0	0	0	0	0	0
TICLE SIZE	D	3 in									
		1 1/2		100	100		100	100		100	
		3/4		100	100		100	100		100	
		3/8		100	100		98	100		100	
		4	100	95	98	96.0	96	98	96.5	96	
	8		84	87			92	92		91	
	10	100			89.4				87.5		
	A	16		68.0	66.0	71.1	85.0	77.0	67.3	80.0	
		18	100.0								
		20									
		30		38.0	34.0	14.7	59.0	44.0	18.7	49.0	
		40		22.0	16.0		25.0	22.0		27.0	
	50	70.3	8.0	4.0	14.7	4.0	6.0	18.7	5.0		
	FINE	60									
		70	46.1	3.0	1.0		3.0	1.0		1.0	
80					0.5			0.5			
100		26.4	1.0	0.0	0.1	3.0	1.0	0.0	1.0		
140		15.9									
PARSICLE	200	9.0	0.0	0.0		3.0	1.0		1.0		
	230										
	270		0.0	0.0		2.0	1.0		1.0		
	0.20 mm		0.0	0.0		1.0	0.0		0.0		
	0.05 mm		0.0	0.0		0.0	0.0		0.0		
MISC	%	Total Organic Car			0.03			0.019			
	mg/kg	Chem Oxy Demand	1600	1700		1175	1000		1800		
	mg/kg	Kjedahl Nitrogen	176	297		54	53		137		
	mg/kg	Total Phosph				130	254				
	mg/kg	Oil and Grease									
	mg/kg	Cyanide, Total	0.2			< 0.61		< 0.61			
	mg/kg	Ammonia				< 0.25		< 0.24			
	mg/l	Ammonia Elutriate									
	%	Moisture	45.7			18.4		18.2			
	%	Total Solids	54.3			81.6		81.8			
%	Volatile Solids	4.86			0.5		0.6				

Table 9. Contaminant Data for Pool 6 of the Upper Mississippi River

Record #		223	224	225	475	226	227	228			
River Mile		722.0	721.1	721.0	721.0	721.0	720.8	720.8	720.8	720.46	
Location		GRAVEL POINT	HOMER	HOMER	HOMER	HOMER - CT LABS	HOMER	HOMER	HOMER	HOMER	
Year		1981	1982	1982	1989	2008	1978	1978	2002	1974	
System		1	1	1	1	1	1	1	1	1	
Habitat Type		1	1	1	1	1	1	1	1	1	
Pool		6	6	6	6	6	6	6	6	6	
Sam. Gear		1	1	1	1	1	1	1	1	1	
Sam. Depth		10	10	10	10	10	10	10	10	10	
Data Cit.		COE	COE	COE	COE	COE	COE	COE	COE	COE	
C H C I S	ug/kg	a-BHC				< 0.07			<0.12		
	ug/kg	b-BHC				< 0.14			<0.12		
	ug/kg	BHC				< 0.21			<0.12		
	ug/kg	g-BHC (lindane)				< 0.09			<0.12		
	ug/kg	Heptachlor				< 0.07			<0.08		
	ug/kg	Aldrin				< 0.09					
	ug/kg	Heptachlorepoide				< 0.12			<1.48		
	ug/kg	Endosulfan I				< 0.12					
	ug/kg	Dieldrin	< 0.1	< 0.1	< 0.1	< 0.12	<3.2	0	0	<0.12	< 10
	ug/kg	4,4'-DDE	< 0.1	< 0.1	< 0.1	< 0.09	<3.5	0	0	<0.12	< 10
	ug/kg	Endrin	< 0.1	< 0.1	< 0.1	< 0.21		0	0	<0.12	< 10
	ug/kg	Endosulfan II				< 0.23					
	ug/kg	4,4'-DDD	< 0.1	< 0.1	< 0.1	< 0.26	<3.7	0	0	<0.12	< 10
	ug/kg	Endrinaldehyde				< 0.26					
	ug/kg	Sulfan sulfate				< 0.26					
ug/kg	4,4'-DDT	< 0.1	< 0.1	< 0.1	< 0.3	<4.2	0	0	<0.24	< 10	
ug/kg	Methoxychlor				< 0.51						
ug/kg	Endrinetone				< 0.26						
ug/kg	Chlorodane	< 1	< 1	< 1	< 1.39		0	0	<0.36	< 10	
ug/kg	Toxaphene				< 1.39						
M E T A L S	mg/kg	Ag (silver)									
	mg/kg	Al (aluminum)									
	mg/kg	As (arsenic)	1	1.5	2.5	1.3	0.96	0	0	0.983	< 0.7
	mg/kg	B (boron)									
	mg/kg	Ba (barium)	30					30	10		
	mg/kg	Be (beryllium)									
	mg/kg	Cd (cadmium)	< 1	< 0.18	< 0.19	< 1.1	<1.0	< 10	< 10	0.18	< 1
	mg/kg	Cr (chromium)	< 10	3.6	5.7	5.3	4.9	< 10	< 10	4.37	7
	mg/kg	Cu (copper)	< 10	2.7	5.7	< 1.4	2.4	< 10	< 10	3.48	5
	mg/kg	Fe (iron)	2800	4100	6800			2200	1900		
	mg/kg	Hg (mercury)	< 0.01	0.017	0.013	< 0.12	<0.10	0	0	<0.006	0.2
	mg/kg	Mg (magnesium)									
	mg/kg	Mn (manganese)	300			302	457	42	35	395	
	mg/kg	Mo (molybdenum)									
	mg/kg	Ni (nickel)	< 10	6	8	6.1	4.9	< 10	< 10	7.27	5
mg/kg	Pb (lead)	< 10	2	2	1.5	<1.0	< 10	30	0.93	< 9	
mg/kg	Sb (antimony)										
mg/kg	Se (selenium)				< 0.84						
mg/kg	Sn (tin)										
mg/kg	Sr (strontium)										
mg/kg	Ti (titanium)										
mg/kg	Zn (zinc)	12	11	17	13.6	10.7	10	10	14.9	17	
mg/kg	V (vanadium)										
P C B ' S	ug/kg	Aroclor-1006				< 1.39	<31				
	ug/kg	Aroclor-1221				< 1.39					
	ug/kg	Aroclor-1232				< 1.39					
	ug/kg	Aroclor-1242				< 1.39					
	ug/kg	Aroclor-1248				< 1.39	<29				
	ug/kg	Aroclor-1254				< 2.9	<10				
	ug/kg	Aroclor-1260				< 2.9	<19				
	ug/kg	Total PCB's	0	0	0			0	0		0
F I N E S I Z E S I C L E	D	3 in						100	100	100	
		1 1/2	100	100	100			100	100	100	
		3/4	100	100	100			100	100	100	
		3/8	100	100	99			100	100	100	
		4	99	100	94	97.8	97.47	100	100	94	99
	A	8	98	99	88						95
		10				91.0	93.36	100	100	91.3	
		16	93.0	97.0	78.0	76.3				85.0	86.0
		18									
		20					78.13	94.0	94.0		
	S	30	63.0	78.0	50.0	36.3					
		40	37.0	51.0	31.0		26.64	51.0	55.0		8.0
		50	12.0	27.0	16.0	36.3				7.9	
		60					2.12				
		70	2.0	17.0	13.0					0.7	
F	80				1.2	0.55	3.0	2.0			
	100	0.0	15.0	12.0	0.0	0.51				0.0	
	140										
	200	0.0	15.0	12.0		0.39	1.0	1.0		0.0	
	230					0.33					
S I C L A	270	0.0	15.0	12.0							
	0.20 mm	0.0	2.0	1.0			0.0	0.0		0.0	
	0.05 mm	0.0	0.0	0.0			0.0	0.0		0.0	
M I S C	%	Total Organic Car				0.015	<1200		<0.01		
	mg/kg	Chem Oxy Demand	1300	920	1120			1800	2100	484	
	mg/kg	Kjedahl Nitrogen	290	52	41		<27	240	800	180	
	mg/kg	Total Phosph		89	222		450	230	74	167	
	mg/kg	Oil and Grease									
	mg/kg	Cyanide, Total				< 0.61	0.91		<0.10		
	mg/kg	Ammonia				< 0.24	<0.73				
	mg/l	Ammonia Elutriate									
%	Moisture				16.8	17.5			17.6		
%	Total Solids				83.2	82.5			82.4		
%	Volatile Solids				0.5	0.0613			17.9		

Table 9. Contaminant Data for Pool 6 of the Upper Mississippi River

Record #		476	716			
River Mile		720.5	719.3 718.4			
Location		HOMER	BLACKSMIT Lwr R-Bay Linear Is			
Year		1989	2002 1985			
System		1	1 1			
Habitat Type		1	1 3			
Pool		6	6 6			
Sam. Gear		1	2			
Sam. Depth		10	10 10			
Data Cit.		COE	COE FWS			
C H C I S	ug/kg	a-BHC	< 0.07	<0.12	< 10	
	ug/kg	b-BHC	< 0.14	<0.12	< 10	
	ug/kg	BHC	< 0.21	<0.12	< 10	
	ug/kg	g-BHC (lindane)	< 0.1	<0.12	< 10	
	ug/kg	Heptachlor	< 0.07	<0.08	< 10	
	ug/kg	Aldrin	< 0.1			
	ug/kg	Heptachlorepoide	< 0.12	<1.48		
	ug/kg	Endosulfan I	< 0.12			
	ug/kg	Dieldrin	< 0.12	<0.12	< 10	
	ug/kg	4,4'-DDE	< 0.1	0.2	< 10	
	ug/kg	Endrin	< 0.21	<0.12	< 10	
	ug/kg	Endosulfan II	< 0.24			
	ug/kg	4,4'-DDD	< 0.26	<0.12	< 10	
	ug/kg	Endrinaldehyde	< 0.26			
	ug/kg	Sulfan sulfata	< 0.26			
	ug/kg	4,4'-DDT	< 0.31	<0.24	< 10	
	ug/kg	Methoxychlor	< 0.52			
	ug/kg	Endrinketone	< 0.26			
ug/kg	Chlorodane	< 1.43	<0.36	< 10		
ug/kg	Toxaphene	< 1.43				
M E T A L S	mg/kg	Ag (silver)			< 0.4	
	mg/kg	Al (aluminum)			5310	
	mg/kg	As (arsenic)	1.4	0.683		< 6
	mg/kg	B (boron)				< 4
	mg/kg	Ba (barium)				76
	mg/kg	Be (beryllium)				0.32
	mg/kg	Cd (cadmium)	< 1.1	0.13		< 0.3
	mg/kg	Cr (chromium)	8.3	3.41		13
	mg/kg	Cu (copper)	2	2.64		9.2
	mg/kg	Fe (iron)				10700
	mg/kg	Hg (mercury)	< 0.12	<0.006		0.21
	mg/kg	Mg (magnesium)				3310
	mg/kg	Mn (manganese)	339	283		< 422
	mg/kg	Mo (molybdenum)				2
	mg/kg	Ni (nickel)	7.1	5.71		11
	mg/kg	Pb (lead)	2.1	0.96		9
	mg/kg	Sb (antimony)				< 4
	mg/kg	Se (selenium)	< 0.81			< 10
mg/kg	Sn (tin)				< 2	
mg/kg	Sr (strontium)				28.9	
mg/kg	Ti (titanium)				20	
mg/kg	Zn (zinc)	15.8	12.3		45.9	
mg/kg	V (vanadium)				< 13	
P C B ' S	ug/kg	Aroclor-1006	< 1.43			
	ug/kg	Aroclor-1221	< 1.43			
	ug/kg	Aroclor-1232	< 1.43			
	ug/kg	Aroclor-1242	< 1.43			
	ug/kg	Aroclor-1248	< 1.43			
	ug/kg	Aroclor-1254	< 2.98			
	ug/kg	Aroclor-1260	< 2.98			
	ug/kg	Total PCB's				0
P A R T I C L E S I Z E % F I N E R	D	c o a r s e	3 in			
			1 1/2			
			3/4			
			3/8			
			4	67.4	100	
			8			
	S	m e d i u m	10	52.7	98.8	
			16	48.7		
			18		94.9	
			20			
			30	35.7		
			40			
F	f i n e	50	35.7	18.3		
		60				
		70		4.1		
		80	6.1			
		100	0.8	3.1		
		140	0.5	2.9		
P A R T I C L E S I Z E % F I N E R	S I L A	200	0.4	2.8		
		230				
		270	0.3			
		0.20 mm	0.2			
		0.05 mm	0.2			
M I S C	%	Total Organic Car	0.58	0.02		
	mg/kg	Chem Oxy Demand				
	mg/kg	Kjedahl Nitrogen				
	mg/kg	Total Phosph				
	mg/kg	Oil and Grease				
	mg/kg	Cyanide, Total	< 0.58	<0.10		
	mg/kg	Ammonia	1.6			
	mg/l	Ammonia Elutriate				
	%	Moisture	14.0	20.6		
	%	Total Solids	86.0	79.4		
%	Volatile Solids	0.7	20.8			