Table 10. Contaminant Data for Pool 7 of the Upper Mississippi River

		Record #	229	230	231	232	717	233	524	234	235	523	236	237	718	238
		River Mile	714.1	713.9	712.7	712.7	712.6	712.0	712.0	711.6	711.5	711.4	710.6	710.3	709.7	709.1
		Location	LOWER APPROACH L/D 6	LOWER APPROACH L/D 6	HEAD OF RICHMOND IS.	HEAD OF RICHMOND IS.	L-Bay Entr @ Lwr end Isl	RICHMOND ISLAND	RICHMOND ISLAND	RICHMOND ISLAND	RICHMOND ISLAND	RICHMOND ISLAND	BELOW QUEENS BLUFF	BELOW QUEENS BLUFF	L-Sm Bay Dwn Shingle Cr	WINTERS LANDING
		Year	1981	1981	1979	1979	1985	1980	1989	1974	1980	1989	1981	1981	1985	1981
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	3	1	1	1	1	1	1	1	3	1
		Pool	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		Sam. Gear	1	1	1	1	2	1	1	1	1	1	1	1	2	1
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	FWS	COE	COE	COE	COE	COE	COE	COE	FWS	COE
CHC'S	ug/kg	a-BHC					< 10		< 0.07			< 0.07			< 10	
	ug/kg	b-BHC					< 10		< 0.14			< 0.14			< 10	
	ug/kg	BHC							< 0.21			< 0.21				
	ug/kg	g-BHC (lindane)					< 10		< 0.09			< 0.1			< 10	
	ug/kg	Heptachlor					< 10		< 0.07			< 0.07			< 10	
	ug/kg	Aldrin							< 0.09			< 0.1				
	ug/kg	Heptachlorepoxide							< 0.12			< 0.12				
	ug/kg	Endosulfan I							< 0.12			< 0.12				
	ug/kg	Dieldrin	< 0.1	< 0.1	0	0	< 10	0	< 0.12	< 10	0	< 0.12	< 0.1	< 0.1	< 10	< 0.1
	ug/kg	4,4'-DDE	< 0.1	< 0.1	0	0	< 10	0	< 0.09	10	0	< 0.1	< 0.1	< 0.1	< 10	< 0.1
	ug/kg	Endrin	< 0.1	< 0.1	0	0	< 10	0	< 0.21	< 10	0	< 0.21	< 0.1	< 0.1	< 10	< 0.1
	ug/kg	Endosulfan II							< 0.24			< 0.24				
	ug/kg	4,4'-DDD	< 0.1	< 0.1	0	0	< 10	0	< 0.26	< 10	0	< 0.26	< 0.1	< 0.1	< 10	< 0.1
	ug/kg	Endrinaldehyde							< 0.26			< 0.26				
	ug/kg	Sulfan sulfate							< 0.26			< 0.26				
	ug/kg	4,4'-DDT	< 0.1	< 0.1	0	0	< 10	0	< 0.31	< 10	0	< 0.31	< 0.1	< 0.1	< 10	< 0.1
	ug/kg	Methoxychlor							< 0.52			< 0.52				
	ug/kg	Endrinketone							< 0.26			< 0.26				
	ug/kg	Chlorodane	< 1	< 1	0	0	< 10	0	< 1.42	< 10	0	< 1.43	< 1	< 1	< 10	< 1
	ug/kg	Toxaphene							< 1.42			< 1.43				
METALS	mg/kg	Ag (silver)					< 0.4								< 0.4	
	mg/kg	Al (aluminum)					7830								12400	
	mg/kg	As (arsenic)	0	0	1	0	< 6	0	1.2	< 0.9	0	< 1	0	0	< 7	0
	mg/kg	B (boron)					< 4								5	
	mg/kg	Ba (barium)	20	30	30	20	108	10			10		20	20	153	40
	mg/kg	Be (beryllium)					0.45								0.72	
	mg/kg	Cd (cadmium)	< 1	< 1	< 10	< 10	0.5	< 10	< 1.1	< 1	< 10	< 1.1	< 1	< 1	0.5	< 1
	mg/kg	Cr (chromium)	< 10	< 10	< 10	< 10	20	< 10	3.3	7	< 10	3.3	< 10	< 10	24	< 10
	mg/kg	Cu (copper)	< 10	< 10	< 10	< 10	13	< 10	< 1.44	5	< 10	1.9	< 10	< 10	17	< 10
	mg/kg	Fe (iron)	3100	3400	4600	3200	17900	2400			2300		3500	2500	22200	4000
	mg/kg	Hg (mercury)	< 0.01	< 0.01	0	0	0.14	0	< 0.01	0.2	0	< 0.01	< 0.01	< 0.01	0.17	< 0.01
	mg/kg	Mg (magnesium)					4020								3520	
	mg/kg	Mn (manganese)	280	310	220	150	< 783	270	809		230	234	280	200	< 476	370
	mg/kg	Mo (molybdenum)					2								3	
	mg/kg	Ni (nickel)	< 10	< 10	< 10	< 10	14	< 10	< 5.5	9	< 10	< 5.48	10	< 10	20	10
	mg/kg	Pb (lead)	< 10	< 10	< 10	< 10	16	< 10	1.1	< 9	< 10	0.9	< 10	< 10	17	< 10
	mg/kg	Sb (antimony)					< 4								< 4	
	mg/kg	Se (selenium)					< 10		< 0.84			< 0.84			< 10	
	mg/kg	Sn (tin)					< 2								< 2	
	mg/kg	Sr (strontium)					20.4								21.1	
	mg/kg	Ti (titanium)					20								20	
	mg/kg	Zn (zinc)	10	10	10	< 10	59.4	13	12.2	16	17	13	10	8	88.2	12
	mg/kg	V (vanadium)					< 15								< 21	
PCB'S	ug/kg	Aroclor-1006							< 1.42			< 1.43				
	ug/kg	Aroclor-1221							< 1.42			< 1.43				
	ug/kg	Aroclor-1232							< 1.42			< 1.43				
	ug/kg	Aroclor-1242							< 1.42			< 1.43				
	ug/kg	Aroclor-1248							< 1.42			< 1.43				
	ug/kg	Aroclor-1254							< 2.95			< 2.98				
	ug/kg	Aroclor-1260							< 2.95			< 2.98				
	ug/kg	Total PCB's	0	0	0	0	0	0		0	0		0	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in			100	100		100		100	100					
		1 1/2	100	100	100	100		100		100	100		100	100		100
		3/4	100	100	100	100		100		100	100		100	100		100
		3/8	100	100	100	100		100		100	100		100	100		100
		4	99	100	99	100		98	99.2	98	100	100	98	100		100
		8	96	99				95		93	95		97	100		94
		10			90	100			96.9			99.4				
	SAND medium	16	85.0	93.0				63.0	90.5	81.0	77.0	94.1	95.0	98.0		81.0
		20			61.0	89.0										
		30	46.0	54.0					53.9			55.6	74.0	85.0		46.0
		40	18.0	23.0	16.0	52.0		20.0		11.0	2.0		41.0	63.0		25.0
		50	3.0	4.0					53.9			55.6	11.0	17.0		6.0
	SAND fine	70	1.0	1.0									2.0	2.0		1.0
		80			2.0	3.0			4.7			3.7				
		100	0.0	0.0				0.0	0.3	0.0	0.0	0.3	0.0	0.0		0.0
		140							0.3							
	SILT CLAY	200	0.0	0.0	1.0	1.0		0.0		0.0	0.0		0.0	0.0		0.0
		270	0.0	0.0									0.0	0.0		0.0
		0.20 mm	0.0	0.0	0.0	0.0		0.0		0.0	0.0		0.0	0.0		0.0
		0.05 mm	0.0	0.0	0.0	0.0		0.0		0.0	0.0		0.0	0.0		0.0
MISC	%	Total Organic Carb							0.045			0.017				
	mg/kg	Chem Oxy Demand	1400	1300	1700	1200		1500		< 461	1500		1100	1500		1300
	mg/kg	Kjedahl Nitrogen	146	250	120	320		90		11	120		171	147		217
	mg/kg	Total Phosph			170	62				209						
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total							< 0.6			< 0.6				
	mg/kg	Ammonia							< 0.24			< 0.24				
	mg/l	Ammonia Elutriate														
	%	Moisture							16.5			16.5				
	%	Total Solids							83.5			83.5				
	%	Volatile Solids							0.4			0.4				

Table 10. Contaminant Data for Pool 7 of the Upper Mississippi River

		Record #	239	240	522	241	242	243	521	611	614	616	615	613	612	610
		River Mile	709.0	709.0	709.0	708.5	708.5	708	708.0	707	707	707	707	707	707	707.0
		Location	WINTERS LANDING	WINTERS LANDING	WINTERS LANDING	WINTERS LANDING	WINTERS LANDING	WINTERS LANDING	WINTERS LANDING	L-Halfway Ck. Ab.RD.	L-Halfway Ck. Bw.RD.	L-Halfway Ck. Bw.RD.	L-Halfway Ck. Bw.RD.	L-Halfway Ck. Bw.RD.	L-Halfway Ck. Ab.RD.	L-Halfway Ck. Ab.RD.
		Year	1974	1974	1989	1978	1978	1981	1989	1984	1984	1984	1984	1984	1984	1984
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	1	1	1	1	1	1	3	3	3	3	3	3	3
		Pool	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		Sam. Gear	1	1	1	1	1	1	1	3	3	3	3	3	3	3
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	WDNR	WDNR	WDNR	WDNR	WDNR	WDNR	WDNR
CHC'S	ug/kg	a-BHC			< 0.07				< 0.07							
	ug/kg	b-BHC			< 0.14				< 0.14							
	ug/kg	BHC			< 0.21				< 0.21							
	ug/kg	g-BHC (lindane)			< 0.1				< 0.1							
	ug/kg	Heptachlor			< 0.07				< 0.07							
	ug/kg	Aldrin			< 0.1				< 0.1							
	ug/kg	Heptachlorepoxide			< 0.12				< 0.12							
	ug/kg	Endosulfan I			< 0.12				< 0.12							
	ug/kg	Dieldrin	< 10	< 10	< 0.12	0	0	< 0.1	< 0.12							
	ug/kg	4,4'-DDE	< 10	< 10	< 0.1	0	0	< 0.1	< 0.1							
	ug/kg	Endrin	< 10	< 10	< 0.21	0	0	< 0.1	< 0.21							
	ug/kg	Endosulfan II			< 0.24				< 0.24							
	ug/kg	4,4'-DDD	< 10	< 10	< 0.26	0	0	< 0.1	< 0.26							
	ug/kg	Endrinaldehyde			< 0.26				< 0.26							
	ug/kg	Sulfan sulfate			< 0.26				< 0.26							
	ug/kg	4,4'-DDT	< 10	< 10	< 0.31	0	0	< 0.1	< 0.31							
	ug/kg	Methoxychlor			< 0.52				< 0.52							
	ug/kg	Endrinketone			< 0.26				< 0.26							
	ug/kg	Chlorodane	< 10	< 10	< 1.43	0	0	< 1	< 1.43							
	ug/kg	Toxaphene			< 1.43				< 1.43							
METALS	mg/kg	Ag (silver)														
	mg/kg	Al (aluminum)								20000	13000	13000	18000	21000	17000	12000
	mg/kg	As (arsenic)	< 0.9	< 0.8	1.4	0	0	0	< 1.01							
	mg/kg	B (boron)														
	mg/kg	Ba (barium)				30	10	10								
	mg/kg	Be (beryllium)														
	mg/kg	Cd (cadmium)	< 0.9	1	< 1.1	< 10	< 10	< 1	< 1.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	mg/kg	Cr (chromium)	7	8	3.5	< 10	< 10	< 10	2.99	47	38	38	29	48	42	29
	mg/kg	Cu (copper)	4	5	< 1.44	< 10	< 10	< 10	< 1.44	26	25	26	27	28	25	19
	mg/kg	Fe (iron)				2200	2500	4500								
	mg/kg	Hg (mercury)	0.3	0.4	< 0.01	0	0	< 0.01	< 0.01	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1
	mg/kg	Mg (magnesium)														
	mg/kg	Mn (manganese)			248	29	24	280	255							
	mg/kg	Mo (molybdenum)														
	mg/kg	Ni (nickel)	7	5	< 5.49	< 10	< 10	< 10	< 5.5	33	30	30	29	29	33	23
	mg/kg	Pb (lead)	< 9	10	0.9	10	< 10	< 10	1.1	19	28	38	24	19	19	21
	mg/kg	Sb (antimony)														
	mg/kg	Se (selenium)			< 0.84				< 0.84							
	mg/kg	Sn (tin)														
	mg/kg	Sr (strontium)														
	mg/kg	Ti (titanium)														
	mg/kg	Zn (zinc)	16	15	12.2	10	10	13	11.7	110	98	93	120	100	96	76
	mg/kg	V (vanadium)														
PCB'S	ug/kg	Aroclor-1006			< 1.43				< 1.43							
	ug/kg	Aroclor-1221			< 1.43				< 1.43							
	ug/kg	Aroclor-1232			< 1.43				< 1.43							
	ug/kg	Aroclor-1242			< 1.43				< 1.43							
	ug/kg	Aroclor-1248			< 1.43				< 1.43							
	ug/kg	Aroclor-1254			< 2.98				< 2.98							
	ug/kg	Aroclor-1260			< 2.98				< 2.98							
	ug/kg	Total PCB's	0	0		0	0	0		0	0	0	0	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in	100	100		100	100									
		1 1/2	100	100		100	100	100								
		3/4	100	100		100	100	100								
		3/8	100	100		100	100	100								
		4	100	100	99.5	100	100	100	98.6							
		8	95	95				100								
		10			98.4	98	98		96.4							
	SAND medium	16	81.0	81.0	93.5			97.0	90.6							
		20				87.0	85.0									
		30			62.9			71.0	66.2							
		40	12.0	12.0		53.0	36.0	42.0								
		50			62.9			9.0	66.2							
	SAND fine	70						1.0								
		80			4.3	5.0	2.0		12.0							
		100	0.0	0.0	0.0			0.0	0.1							
		140														
	SILT CLAY	200	0.0	0.0		1.0	0.0	0.0								
		270						0.0								
		0.20 mm	0.0	0.0		0.0	0.0	0.0								
		0.05 mm	0.0	0.0		0.0	0.0	0.0								
MISC	%	Total Organic Carb			0.026				0.025							
	mg/kg	Chem Oxy Demand	1417	418		1800	1200	1200								
	mg/kg	Kjedahl Nitrogen	145	123		180	210	230								
	mg/kg	Total Phosph	207	205		180	190									
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total			< 0.61				< 0.59							
	mg/kg	Ammonia			< 0.55				< 0.24							
	mg/l	Ammonia Elutriate														
	%	Moisture			18.1				15.8							
	%	Total Solids			81.9				84.2							
	%	Volatile Solids			0.4				0.5							

Table 10. Contaminant Data for Pool 7 of the Upper Mississippi River

		Record #	766	719	244	520	245	519	246	720	247	518	765	721	332	331
		River Mile	706.8	706.8	706.5	706.4	706.3	706.1	706.0	706	705.4	705.1	705	705	705	705.0
		Location	L-Lk Onalaska celery-4	L-Bay Is Across Dakota	DAKOTA	DAKOTA	DAKOTA	DAKOTA	DAKOTA	L-Entrnc Black R. Chute	HEAD OF DRESBACH CUT	HEAD OF DRESBACH CUT	L-Lk Onalaska celery 3	R-Bay Nr Hd Dresbach Isl	L-Lk Onalaska Rosebud 3-2	L-Lk Onalaska Rosebud 3-1
		Year	1983	1985	1980	1989	1974	1989	1980	1985	1980	1989	1983	1985	1987	1987
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	3	3	1	1	1	1	1	3	1	1	3	3	3	3
		Pool	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		Sam. Gear	2	2	1	1	1	1	1	2	1	1	2	2	4	4
		Sam. Depth	10	10	10	10	10	10	10	10	10	10	10	10	60-120	60
		Data Cit.	FWS	FWS	COE	COE	COE	COE	COE	FWS	COE	COE	FWS	FWS	COE	COE
CH'C'S	ug/kg	a-BHC		< 10		< 0.07		< 0.07		< 10		< 0.07		< 10	< 5	< 5
	ug/kg	b-BHC		< 10		< 0.14		< 0.14		< 10		< 0.14		< 10	< 5	< 5
	ug/kg	BHC				< 0.21		< 0.21				< 0.21				
	ug/kg	g-BHC (lindane)		< 10		< 0.09		< 0.09		< 10		< 0.09		< 10	< 5	< 5
	ug/kg	Heptachlor		< 10		< 0.07		< 0.07		< 10		< 0.07		< 10	< 5	< 5
	ug/kg	Aldrin				< 0.09		< 0.09				< 0.09				
	ug/kg	Heptachlorepoxide				< 0.12		< 0.12				< 0.12				
	ug/kg	Endosulfan I				< 0.12		< 0.12				< 0.12				
	ug/kg	Dieldrin		< 10	0	< 0.12	< 10	< 0.12	0	< 10	0	< 0.12		< 10	< 5	< 5
	ug/kg	4,4'-DDE		< 10	0	< 0.09	10	< 0.09	0	< 10	0	< 0.09		< 10	< 5	< 5
	ug/kg	Endrin		< 10	0	< 0.21	< 10	< 0.21	0	< 10	0	< 0.21		< 10	< 5	< 5
	ug/kg	Endosulfan II				< 0.24		< 0.24				< 0.23				
	ug/kg	4,4'-DDD		< 10	0	< 0.26	< 10	< 0.26	0	< 10	0	< 0.26		< 10	< 5	< 5
	ug/kg	Endrinaldehyde				< 0.26		< 0.26				< 0.26				
	ug/kg	Sulfan sulfate				< 0.26		< 0.26				< 0.26				
	ug/kg	4,4'-DDT		< 10	0	< 0.31	< 10	< 0.31	0	< 10	0	< 0.3		< 10	< 5	< 5
	ug/kg	Methoxychlor				< 0.52		< 0.52				< 0.51				
	ug/kg	Endrinketone				< 0.26		< 0.26				< 0.26				
	ug/kg	Chlorodane		< 10	0	< 1.42	< 10	< 1.42	0	< 10	0	< 1.39		< 10	< 5	< 5
	ug/kg	Toxaphene				< 1.42		< 1.42				< 1.39				
METALS	mg/kg	Ag (silver)	7.6	< 0.4						< 0.5			1.48	< 0.4		
	mg/kg	Al (aluminum)	8360	5490						16100			5624	5520		
	mg/kg	As (arsenic)	< 40	< 6	0	1.6	< 0.9	1.5	0	< 8	0	< 1	< 40	< 6	5.2	< 2.2
	mg/kg	B (boron)	< 5	6						5			< 5	13		
	mg/kg	Ba (barium)	99	105	10				20	246	50		87	85		
	mg/kg	Be (beryllium)	0.3	0.4						0.91			0.3	0.37		
	mg/kg	Cd (cadmium)	0.26	< 0.3	< 10	< 1.1	< 0.9	< 1.06	< 10	0.5	< 10	< 1.09	0.31	0.4	5.8	5.8
	mg/kg	Cr (chromium)	16.7	14	< 10	3.3	7	3.5	< 10	31	< 10	2.8	11.4	14	20.2	20.2
	mg/kg	Cu (copper)	7.6	11	< 10	< 1.44	5	< 1.38	< 10	23	< 10	1.5	7	11	11.5	11.5
	mg/kg	Fe (iron)	18240	13800	2400				3400	27900	3800		8584	12600		
	mg/kg	Hg (mercury)	< 0.05	0.22	0	< 0.01	0.1	< 0.01	0	0.15	0	< 0.01	< 0.05	0.07	< 0.6	< 0.6
	mg/kg	Mg (magnesium)	2128	3240						3800			1332	4990		
	mg/kg	Mn (manganese)	< 654	< 956	120	229		260	240	< 760	450	282	< 141	< 745	4.5	4.5
	mg/kg	Mo (molybdenum)	2	2						3			2	2		
	mg/kg	Ni (nickel)	11.4	13	< 10	< 5.48	5	< 5.27	10	24	10	< 5.43	8	13	< 25	< 25
	mg/kg	Pb (lead)	6.4	12	< 10	1.1	9	0.9	10	22	10	1.07	5.5	14	17.4	12
	mg/kg	Sb (antimony)	< 40	< 4						< 4			< 40	< 4		
	mg/kg	Se (selenium)	< 20	< 10		< 0.84		< 0.8		< 10		< 0.83	< 20	< 10		
	mg/kg	Sn (tin)	< 20	< 2						< 3			< 20	< 2		
	mg/kg	Sr (strontium)	12.5	15.7						26.7			8.1	16.7		
	mg/kg	Ti (titanium)	20	20						20			20	20		
	mg/kg	Zn (zinc)	38	50.1	11	10.7	14	11.6	2.1	109	11	10.7	34	51.8	11	8.4
	mg/kg	V (vanadium)	< 38	< 10						< 25			< 34	< 9.4		
PCB'S	ug/kg	Aroclor-1006				< 1.42		< 1.42				< 1.39				
	ug/kg	Aroclor-1221				< 1.42		< 1.42				< 1.39				
	ug/kg	Aroclor-1232				< 1.42		< 1.42				< 1.39				
	ug/kg	Aroclor-1242				< 1.42		< 1.42				< 1.39				
	ug/kg	Aroclor-1248				< 1.42		< 1.42				< 1.39				
	ug/kg	Aroclor-1254				< 2.95		< 2.95				< 2.9				
	ug/kg	Aroclor-1260				< 2.95		< 2.95				< 2.9				
	ug/kg	Total PCB's	0	0	0		0		0	0	0		0	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in			100		100		100		100					
		1 1/2			100		100		100		100					
		3/4			100		100		100		100					
		3/8			100		100		100		100					
		4			100	97.7	100	99.3	100		100	98.7				
		8			100		96		100		100					
		10				95.4		98.4				95.3			92.1	93.76
	SAND medium	16			99.0	83.5	87.0	92.1	100		96.0	83.5				
		20														
		30				30.3		54.5				34.6				
		40			58.0		11.0		100		44.0				57.1	81.9
		50				30.3		54.5				34.6				
	SAND fine	70														
		80				1.4		8.6				1.8				
		100			1.0	0.1	0.0	0.0	97.0		0.0	0.0				
		140				0.0									53.5	73.2
	SILT CLAY	200			0.0	0.0	0.0		38.0		0.0					
		270													42.1	49.9
		0.20 mm			0.0		0.0		0.0		0.0				24.8	21.7
		0.05 mm			0.0		0.0		0.0		0.0				24.8	21.8
MISC	%	Total Organic Carb				0.061		0.02				0.03			5.92	7.95
	mg/kg	Chem Oxy Demand			460		444		1000		1100					
	mg/kg	Kjedahl Nitrogen			70		112		440		250					
	mg/kg	Total Phosph					200									
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total				< 0.59		< 0.6				< 0.6				
	mg/kg	Ammonia				< 0.24		< 0.24				< 0.24				
	mg/l	Ammonia Elutriate														
	%	Moisture				15.6		16.0				16.4				
	%	Total Solids				84.4		84.0				83.6				
	%	Volatile Solids				0.5		0.4				0.6				

Table 10. Contaminant Data for Pool 7 of the Upper Mississippi River

		Record #	327	322	330	323	326	329	324	325	328	248	764	249	763	760
		River Mile	705	705	705	705	705	705	705	705	705	704.9	704.4	704.3	704.2	704.2
		Location	L-Lk Onaleska Rosebud 2-2	L-Lk Onaleska Rosebud 1-1	L-Lk Onaleska Rosebud 2/3	L-Lk Onaleska Rosebud 1-2	L-Lk Onaleska Rosebud 2-1	L-Lk Onaleska Rosebud b-2	L-Lk Onaleska Rosebud a-1	L-Lk Onaleska Rosebud a-2	L-Lk Onaleska Rosebud b-1	HEAD OF DRESBACH CUT	L-Lk Onaleska celery-2	HEAD OF DRESBACH CUT	L-Lk Onaleska celery-1	L-Lk Onaleska celery-5
		Year	1987	1987	1987	1987	1987	1988	1988	1988	1988	1974	1983	1980	1983	1983
		System	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Habitat Type	3	3	3	3	3	3	3	3	3	1	3	1	3	3
		Pool	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		Sam. Gear	4	4	4	4	4	4	4	4	4	1	2	1	2	2
		Sam. Depth	60-120	60	120	60-120	60	60-120	76	76-120	60	10	10	10	10	10
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	FWS	COE	FWS	FWS
CHC'S	ug/kg	a-BHC	< 5	< 5	< 5	< 5	< 5	< 4.8	< 4.8	< 4.8	< 4.8					
	ug/kg	b-BHC	< 5	< 5	< 5	< 5	< 5	< 4.8	< 4.8	< 4.8	< 4.8					
	ug/kg	BHC														
	ug/kg	g-BHC (lindane)	< 5	< 5	< 5	< 5	< 5	< 4.8	< 4.8	< 4.8	< 4.8					
	ug/kg	Heptachlor	< 5	< 5	< 5	< 5	< 5	< 2.2	< 2.2	< 2.2	< 2.2					
	ug/kg	Aldrin														
	ug/kg	Heptachlorepoxide														
	ug/kg	Endosulfan I														
	ug/kg	Dieldrin	< 5	< 5	< 5	< 5	< 5	< 4	< 4	< 4	< 4	< 10		0		
	ug/kg	4,4'-DDE	< 5	< 5	< 5	< 5	< 5	< 5.8	< 5.8	< 5.8	< 5.8	< 10		0		
	ug/kg	Endrin	< 5	< 5	< 5	< 5	< 5	< 13	< 13	< 13	< 13	< 10		0		
	ug/kg	Endosulfan II														
	ug/kg	4,4'-DDD	< 5	< 5	< 5	< 5	< 5	< 13	< 13	< 13	< 13	< 10		0		
	ug/kg	Endrinaldehyde														
	ug/kg	Sulfan sulfate														
	ug/kg	4,4'-DDT	< 5	< 5	< 5	< 5	< 5	< 8.7	< 8.7	< 8.7	< 8.7	< 10		0		
	ug/kg	Methoxychlor														
	ug/kg	Endrinketone														
	ug/kg	Chlorodane	< 5	< 5	< 5	< 5	< 5	< 12	< 12	< 12	< 12	< 10		0		
	ug/kg	Toxaphene														
METALS	mg/kg	Ag (silver)											< 1		< 1	1.8
	mg/kg	Al (aluminum)											1182		19872	6660
	mg/kg	As (arsenic)	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	0.06	0.89	0.15	0.82	< 0.9	< 40	0	< 40	< 40
	mg/kg	B (boron)											< 5		< 5	< 5
	mg/kg	Ba (barium)											15	30	251	104
	mg/kg	Be (beryllium)											< 0.1		0.86	0.36
	mg/kg	Cd (cadmium)	5.8	< 3.1	5.8	5.8	12.3	0.33	0.48	0.35	0.43	< 0.6	0.15	< 10	0.66	0.58
	mg/kg	Cr (chromium)	30.9	30.9	20.2	20.2	30.9	6	11	16	9	6	3.9	< 10	28.8	16.6
	mg/kg	Cu (copper)	18.2	18.2	18.2	11.5	25	3.6	5.4	6.4	5.1	6	< 1	< 10	25.9	12.2
	mg/kg	Fe (iron)											3152	2400	34560	15120
	mg/kg	Hg (mercury)	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.02	< 0.02	< 0.02	< 0.02	0.4	< 0.05	0	< 0.05	< 0.05
	mg/kg	Mg (magnesium)											374		4896	3060
	mg/kg	Mn (manganese)	216	1171.8	744.2	312.2	1208.3	28	150	18	80		< 77	230	< 950	< 486
	mg/kg	Mo (molybdenum)											2		2	2
	mg/kg	Ni (nickel)	54.5	54.5	54.5	< 25	100	6.3	9.9	9.6	9.6	6	2	10	27.1	13
	mg/kg	Pb (lead)	11.5	10.6	22.9	13.8	14	< 2.5	8.4	5.3	21	< 6	2.4	10	26.8	13.1
	mg/kg	Sb (antimony)											< 40		< 40	< 40
	mg/kg	Se (selenium)											< 20		< 20	< 20
	mg/kg	Sn (tin)											< 20		< 20	< 20
	mg/kg	Sr (strontium)											3.9		43.2	14.2
	mg/kg	Ti (titanium)											20		20	20
	mg/kg	Zn (zinc)	77.3	90.1	44.1	23.7	105.4	6	28	15	23	19	8.7	9.4	100.8	50.4
	mg/kg	V (vanadium)											< 8.7		< 100.8	< 50.4
PCB'S	ug/kg	Aroclor-1006														
	ug/kg	Aroclor-1221														
	ug/kg	Aroclor-1232														
	ug/kg	Aroclor-1242														
	ug/kg	Aroclor-1248														
	ug/kg	Aroclor-1254														
	ug/kg	Aroclor-1260														
	ug/kg	Total PCB's	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PARTICLE SIZE %FINER	SAND coarse	3 in										100		100		
		1 1/2										100		100		
		3/4										100		100		
		3/8										100		100		
		4										100		100		
		8										94		100		
		10	89.9		92.9		90.9									
	SAND medium	16										77.0		99.0		
		20														
		30														
		40	41.1		66.8		54.8					10.0		63.0		
		50														
	SAND fine	70														
		80														
		100										0.0		0.0		
		140	27.6		62.1		43.0									
	SILT CLAY	200										0.0		0.0		
		270	19.5		36.0		32.5									
		0.20 mm	12.4		18.3		17.7					0.0		0.0		
		0.05 mm	12.4		18.3		17.7					0.0		0.0		
MISC	%	Total Organic Carb	8.48		9.09		15.29									
	mg/kg	Chem Oxy Demand										475		750		
	mg/kg	Kjedahl Nitrogen										108		1210		
	mg/kg	Total Phosph										375				
	mg/kg	Oil and Grease														
	mg/kg	Cyanide, Total														
	mg/kg	Ammonia														
	mg/l	Ammonia Elutriate														
	%	Moisture														
	%	Total Solids														
	%	Volatile Solids														

Table 10. Contaminant Data for Pool 7 of the Upper Mississippi River

		Record #	517	701	702	703	704	700	722	723	762	761
		River Mile	704.2	704	704	704	704	704	704	703.8	703.5	703.3
		Location	HEAD OF DRESBACH CUT	L-Lk Onalaska Rosebud Isl	L-Lake Onalaska Halfway	L-Lake Onalaska Halfway	L-Lk Onalaska Rosebud Isl	L-Lk Onalaska Rosebud Isl	L-Lk Onalaska Rosebud Isl	L-Confluence 1/2 mi. Cr.	L-Lk Onalaska celery-7	L-Lk Onalaska celery-6
		Year	1989	1984	1984	1984	1984	1984	1985	1985	1983	1983
		System	1	1	1	1	1	1	1	1	1	1
		Habitat Type	1	3	3	3	3	3	3	3	3	3
		Pool	7	7	7	7	7	7	7	7	7	7
		Sam. Gear	1	2	2	2	2	2	2	2	2	2
		Sam. Depth	10	10	10	10	10	10	10	10	10	10
		Data Cit.	COE	FWS	FWS	FWS	FWS	FWS	FWS	FWS	FWS	FWS
CHC'S	ug/kg	a-BHC	< 0.07						< 10	< 10		
	ug/kg	b-BHC	< 0.14						< 10	< 10		
	ug/kg	BHC	< 0.22									
	ug/kg	g-BHC (lindane)	< 0.1						< 10	< 10		
	ug/kg	Heptachlor	< 0.07						< 10	< 10		
	ug/kg	Aldrin	< 0.1									
	ug/kg	Heptachlorepoxide	< 0.12									
	ug/kg	Endosulfan I	< 0.12									
	ug/kg	Dieldrin	< 0.12						< 10	< 10		
	ug/kg	4,4'-DDE	< 0.1						< 10	< 10		
	ug/kg	Endrin	< 0.22						< 10	< 10		
	ug/kg	Endosulfan II	< 0.24									
	ug/kg	4,4'-DDD	< 0.26						< 10	< 10		
	ug/kg	Endrinaldehyde	< 0.26									
	ug/kg	Sulfan sulfate	< 0.26									
	ug/kg	4,4'-DDT	< 0.31						< 10	< 10		
	ug/kg	Methoxychlor	< 0.53									
	ug/kg	Endrinketone	< 0.26									
	ug/kg	Chlorodane	< 1.44						< 10	< 10		
	ug/kg	Toxaphene	< 1.44									
METALS	mg/kg	Ag (silver)		< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	3.04	1.51
	mg/kg	Al (aluminum)		11000	6440	5730	15900	13200	13100	12900	8360	9664
	mg/kg	As (arsenic)	2.2	< 40	< 40	< 40	< 40	< 40	< 8	< 8	< 40	< 40
	mg/kg	B (boron)		4	4	4	7	7	6	7	< 5	< 5
	mg/kg	Ba (barium)		195	82	82	215	203	159	189	108	149
	mg/kg	Be (beryllium)		0.82	0.41	0.41	1	0.96	0.74	0.81	< 0.1	0.45
	mg/kg	Cd (cadmium)	< 1.08	0.61	0.23	0.21	0.44	0.42	0.4	< 0.3	0.35	0.39
	mg/kg	Cr (chromium)	5.5	18	11	10	24	20	21	23	16.7	22.6
	mg/kg	Cu (copper)	2.3	19	10	10	23	22	23	23	9	16.6
	mg/kg	Fe (iron)		27000	13400	13300	36900	34300	27700	27700	15048	21140
	mg/kg	Hg (mercury)	< 0.01	0.05	0.05	0.05	0.05	0.05	0.07	0.14	< 0.05	< 0.05
	mg/kg	Mg (magnesium)		3460	2940	2850	6080	5830	4180	4450	1976	3020
	mg/kg	Mn (manganese)	403	< 1340	< 718	< 711	< 2070	< 2010	< 2030	< 1970	< 304	< 544
	mg/kg	Mo (molybdenum)		3	2	2	3	3	3	3	2	2
	mg/kg	Ni (nickel)	5.4	20	11	11	24	22	19	20	11.4	13.7
	mg/kg	Pb (lead)	1.1	27	12	11	32	30	20	23	9.9	9.1
	mg/kg	Sb (antimony)		< 40	< 40	< 40	< 40	< 40	< 4	< 4	< 40	< 40
	mg/kg	Se (selenium)	< 0.82	< 20	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 20
	mg/kg	Sn (tin)		< 20	< 20	< 20	< 20	< 20	< 2	< 2	< 20	< 20
	mg/kg	Sr (strontium)		30	15	15	39	38	53	27.2	14	16.6
	mg/kg	Ti (titanium)		20	20	20	20	20	20	20	20	20
	mg/kg	Zn (zinc)	15.8	78	43	42	94	86	85.1	88.3	42.6	57.4
	mg/kg	V (vanadium)		26	< 15	< 15	33	29	< 26	< 18	< 42.6	< 57.4
PCB'S	ug/kg	Aroclor-1006	< 1.44									
	ug/kg	Aroclor-1221	< 1.44									
	ug/kg	Aroclor-1232	< 1.44									
	ug/kg	Aroclor-1242	< 1.44									
	ug/kg	Aroclor-1248	< 1.44									
	ug/kg	Aroclor-1254	< 3									
	ug/kg	Aroclor-1260	< 3									
	ug/kg	Total PCB's		0	0	0	0	0	0	0	0	0
PARTICLE SIZE %FINER			3 in									
			1 1/2									
			3/4									
			3/8									
	SAND coarse		4	99.6								
			8									
			10	96.1								
	SAND fine medium		16	75.9								
			20									
			30	28.8								
			40									
			50	28.8								
			70									
			80	2.2								
			100	0.0								
			140									
	SILT CLAY		200									
			270									
			0.20 mm									
			0.05 mm									
MISC	%	Total Organic Carb	0.039									
	mg/kg	Chem Oxy Demand										
	mg/kg	Kjedahl Nitrogen										
	mg/kg	Total Phosph										
	mg/kg	Oil and Grease										
	mg/kg	Cyanide, Total	< 0.61									
	mg/kg	Ammonia	< 0.24									
	mg/l	Ammonia Elutriate										
	%	Moisture	17.8									
	%	Total Solids	82.2									
	%	Volatile Solids	0.5									