

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

		Record #	541.00	82.00	83.00	L16490-1	L16490-2						539.00
		River Mile	815.1	815.0	815.0	815.0	815.0	814.90	813.30	813.30	813.2		813.1
		Location	Below L/D 2	LOWER APPRO. L/D 2	LOWER APPRO. L/D 2	Lower Approach L/D 2	Lower Approach L/D 2	BELOW L/D 2	HASTINGS SBH	HASTINGS SBH CT LABS	HASTINGS SM BOAT	HASTINGS SM BOAT	HASTINGS SM BOAT
		Year	1989	1982	1982	1998	1998	2008	2008	2008	2002	1989	
		System	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
		Habitat Type	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00	2.00	
		Pool	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
		Sam. Gear	1.00	1.00	1.00						1.00	1.00	
		Sam. Depth	10.00	10.00	10.00			10.00	10.00	10.00	10.00	10.00	
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	
C H C U S	ug/kg	a-BHC				<5.4	<5.4		<4		< 0.12	< 0.07	
	ug/kg	b-BHC				<5.4	<5.4		<4		< 0.12	< 0.14	
	ug/kg	BHC				<5.4	<5.4		<4		< 0.12	< 0.21	
	ug/kg	g-BHC (lindane)				<5.4	<5.4		<4		< 0.12	< 0.09	
	ug/kg	Heptachlor				<5.4	<5.4		<4		< 0.08	< 0.07	
	ug/kg	Aldrin							<4			< 0.09	
	ug/kg	Heptachlorepoxyde				<5.4	<5.4		<4		< 1.48	< 0.12	
	ug/kg	Endosulfan I							<4			< 0.12	
	ug/kg	Dieldrin		< 0.1	< 0.1			<3.2	<4	<3.2		< 0.12	< 0.12
	ug/kg	4,4'-DDE		< 0.1	< 0.1	<5.4	<5.4	<4	<4	<3.5	2.01	< 0.09	
	ug/kg	Endrin		< 0.1	< 0.1	<5.4	<5.4		<4		< 0.12	< 0.21	
	ug/kg	Endosulfan II							<4			< 0.24	
	ug/kg	4,4'-DDD		< 0.1	< 0.1	<5.4	<5.4	<3.7	<4	<3.7	0.72	< 0.26	
	ug/kg	Endrinaldehyde							<4			< 0.26	
ug/kg	Sulfan sulfate										< 0.26		
ug/kg	4,4'-DDT		< 0.1	< 0.1	<5.4	<5.4	<4.2	<4	<4	0.61	< 0.31		
ug/kg	Methoxychlor							<4			< 0.52		
ug/kg	Endrin ketone							<4			< 0.26		
ug/kg	Chlorodane		< 1	< 1				<83		< 0.36	< 1.42		
ug/kg	Toxaphene							<83			< 1.42		
M E T A L S	mg/kg	Ag (silver)											
	mg/kg	Al (aluminum)											
	mg/kg	As (arsenic)		1.80	2.50	0.78	0.65	0.61	5.40	4.10	4.96	< 0.98	
	mg/kg	B (boron)											
	mg/kg	Ba (barium)											
	mg/kg	Be (beryllium)											
	mg/kg	Cd (cadmium)		< 0.19	< 0.18	<0.05	<0.05	<1.0	<1.2	<1.0	1.7	< 1.1	
	mg/kg	Cr (chromium)		5.60	8.00	5.00	3.60	5.10	22.00	16.10	19.8	6.40	
	mg/kg	Cu (copper)		2.80	7.10		1.50	1.40	34.00	24.50	26	2.90	
	mg/kg	Fe (iron)		6200.00	#####								
	mg/kg	Hg (mercury)		0.01	0.02	<0.01	<0.01	<0.10		0.08	0.10	0.038	< 0.01
	mg/kg	Mg (magnesium)											
	mg/kg	Mn (manganese)				220.00	240.00	244.00	1300.00	1030.00	1200	358.00	
	mg/kg	Mo (molybdenum)											
mg/kg	Ni (nickel)		8.00	12.00	4.30	4.20	5.10	20.00	14.20	29.2	8.50		
mg/kg	Pb (lead)		1.90	7.00	5.90	<5.0		1.70	19.00	12.20	29.8	1.50	
mg/kg	Sb (antimony)												
mg/kg	Se (selenium)										< 0.82		
mg/kg	Sn (tin)												
mg/kg	Sr (strontium)												
mg/kg	Ti (titanium)												
mg/kg	Zn (zinc)		16.00	28.00	12.00	12.00	8.60	96.00	64.40	91.4	17.30		
mg/kg	V (vanadium)												
P C B ' S	ug/kg	Aroclor-1006						<31	<200	<31		< 1.42	
	ug/kg	Aroclor-1221				<5.0	<5.0					< 1.42	
	ug/kg	Aroclor-1232				<5.0	<5.0					< 1.42	
	ug/kg	Aroclor-1242				<5.0	<5.0					< 1.42	
	ug/kg	Aroclor-1248				<5.0	<5.0	<29	<200	<29		< 1.42	
	ug/kg	Aroclor-1254				<5.0	<5.0	<10	<200	<10		< 2.95	
	ug/kg	Aroclor-1260				<5.0	<5.0	<19	<200	<19		< 2.95	
	ug/kg	Total PCB's		0.00	0.00								
P A R T I C L E S I Z E % F I N E R	D I S T R I B U T I O N	3 in											
		1 1/2											
		3/4			100.00								
		3/8			100.00								
		4	99.7		100.00		100.00	100.00	100.00	100.00	100	98.4	
		8			98.00								
		10	99.0				98.54	100.00	100.00	100.00	99.9	95.4	
		16	95.4		89.0							82.4	
		18.00									99.3		
		20					91.18	99.80	98.71				
		30	71.2		67.0							37.3	
		40			35.0		51.32	99.20	88.58				
		50	71.2		14.0						96.5	37.3	
		60					17.91	98.80	77.66				
70			9.0						85.4				
80	16.5				5.06		71.91			9.7			
100	0.5		8.0		2.92		69.68	76.4		1.3			
140	0.4						98.70	59.5		1.1			
200	0.3		7.0			1.00	97.60	58.98	45.6	0.9			
270	0.3		7.0							0.5			
0.20 mm	0.2		1.0							0.3			
0.05 mm	0.2		0.0							0.3			
M I S C	%	Total Organic Carbon	0.01			0.10	0.04	<1300	150000.00	18000.00	2.4	0.17	
	mg/kg	Chem Oxy Demand			2245.00								
	mg/kg	Kjedahl Nitrogen			94.00			81.00	1240.00	2400.00			
	mg/kg	Total Phosph			175.00			120.00	1020.00	1000.00			
	mg/kg	Oil and Grease			50.00								
M I S C	mg/kg	Cyanide, Total						<0.44	<0.63	<0.90	0.15	< 0.61	
	mg/kg	Ammonia				0.20	0.10	<0.76	81.00	63.00	29	3.20	
	mg/l	Ammonia Elutriate											
	%	Moisture			6.00	8.00	21.10	60.10	61.20	58.2		19.10	
	%	Total Solids			94.00	92.00	78.90	39.90	38.80	41.8		80.90	
%	Volatile Solids			0.66	0.44	0.0035	<0.01		0.0665	6.74		0.70	

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

Record #		540.00	84.00	529.00	85.00	86.00	87.00	88.00	530.00	89.00				
River Mile		813.1	813.0	811.5	811.40	811.0	811.0	811.0	810.9	809.6				
Location		HASTINGS	HASTINGS	HASTINGS	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PINE			
Year		SM BOAT	SM BOAT	SM BOAT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	PRESCOTT	COULEE			
System		1989	1994	1979	1989	2008	1982	1982	1978	1978	1989			
Habitat Type		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Pool		2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Sam. Gear		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00			
Sam. Depth		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Data Cit.		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00			
		COE	COE	COE	COE	COE	COE	COE	COE	COE	COE			
C H C L O R S	ug/kg	a-BHC	< 0.11	< 0.38	< 0.07					< 0.07				
	ug/kg	b-BHC	< 0.22	2.40	< 0.14					< 0.14				
	ug/kg	BHC	< 0.33	< 0.38	< 0.22					< 0.21				
	ug/kg	g-BHC (lindane)	< 0.15	< 0.38	< 0.1					< 0.1				
	ug/kg	Heptachlor	< 0.11	0.58	< 0.07					< 0.07				
	ug/kg	Aldrin	< 0.15		< 0.1					< 0.1				
	ug/kg	Heptachlorepoide	< 0.18		< 0.12					< 0.12				
	ug/kg	Endosulfan I	< 0.18		< 0.12					< 0.12				
	ug/kg	Dieldrin	< 0.18	< 0.76	0.00	< 0.12	< 3.2	< 0.1	< 0.1	0.00	0.00	< 0.12	< 0.1	
	ug/kg	4,4'-DDE	< 0.15	< 2.3	4.60	< 0.1	< 3.5	< 0.1	< 0.1	0.00	0.00	< 0.1	< 0.1	
	ug/kg	Endrin	< 0.33	< 0.76	0.00	< 0.22		< 0.1	< 0.1	0.00	0.00	< 0.21	< 0.1	
	ug/kg	Endosulfan II	< 0.36		< 0.24							< 0.24		
	ug/kg	4,4'-DDD	< 0.4	< 1.4	4.90	< 0.26	< 3.7	< 0.1	< 0.1	0.00	0.00	< 0.26	< 0.1	
	ug/kg	Endrinldehyde	< 0.4		< 0.26							< 0.26		
	ug/kg	Sulfan sulfate	< 0.4		< 0.26							< 0.26		
	ug/kg	4,4'-DDT	< 0.4	< 0.76	0.40	< 0.31	< 4.2	< 0.1	< 0.1	0.00	0.00	< 0.31	< 0.1	
	ug/kg	Methoxychlor	< 0.8		< 0.53							< 0.52		
	ug/kg	Endrinetone	< 0.4		< 0.26							< 0.26		
	ug/kg	Chlorodane	< 2.18	< 0.38	8.00	< 1.44		< 1	< 1	0.00	0.00	< 1.43	< 1	
	ug/kg	Toxaphene	< 2.18		< 0.144							< 1.43		
M E T A L S	mg/kg	Ag (silver)												
	mg/kg	Al (aluminum)												
	mg/kg	As (arsenic)	< 1.6	4.50	2.00	1.90	1.00	2.00	2.50	0.00	0.00	1.60	2.90	
	mg/kg	B (boron)												
	mg/kg	Ba (barium)			110.00				20.00	10.00				
	mg/kg	Be (beryllium)												
	mg/kg	Cd (cadmium)	< 1.7	1.40	< 10	< 1	< 1.0	< 0.17	< 0.18	< 10	< 10	< 1.1	< 0.19	
	mg/kg	Cr (chromium)	22.80	31.30	40.00	5.20	7.00	6.80	5.50	< 10	< 10	7.30	5.80	
	mg/kg	Cu (copper)	18.30	24.10	30.00	14.40	2.70	2.50	2.80	< 10	< 10	11.10	2.90	
	mg/kg	Fe (iron)			#####			6000.00	5700.00	3200.00	3000.00		8500.00	
	mg/kg	Hg (mercury)	0.32	0.11	0.00	< 0.01	< 0.10	0.07	0.05	0.00	0.00	< 0.12	0.03	
	mg/kg	Mg (magnesium)												
	mg/kg	Mn (manganese)	741.00	1020.00	910.00	404.00	438.00			180.00	340.00	349.00		
	mg/kg	Mo (molybdenum)												
	mg/kg	Ni (nickel)	14.30	19.70	20.00	5.50	6.70	8.00	7.00	< 10	< 10	6.70	9.00	
	mg/kg	Pb (lead)	< 18.9	19.60	40.00	2.00	2.40	3.00	4.00	< 10	< 10	2.30	6.00	
mg/kg	Sb (antimony)													
mg/kg	Se (selenium)	< 1.3			< 0.79						< 0.83			
mg/kg	Sn (tin)													
mg/kg	Sr (strontium)													
mg/kg	Ti (titanium)													
mg/kg	Zn (zinc)	< 81.9	87.60	90.00	16.20	11.40	13.00	14.00	10.00	10.00	18.20	16.00		
mg/kg	V (vanadium)													
P C B ' S	ug/kg	Aroclor-1006	< 2.18	< 4.9	< 1.44	< 31					< 1.43			
	ug/kg	Aroclor-1221	< 2.18	< 4.9	< 1.44						< 1.43			
	ug/kg	Aroclor-1232	< 2.18	< 4.9	< 1.44						< 1.43			
	ug/kg	Aroclor-1242	< 2.18	< 4.9	< 1.44						< 1.43			
	ug/kg	Aroclor-1248	< 2.18	< 4.9	< 1.44	< 29					< 1.43			
	ug/kg	Aroclor-1254	< 4.55	54.00	< 3	< 10					< 2.98			
	ug/kg	Aroclor-1260	< 4.55	< 4.9	< 3	< 19					< 2.98			
	ug/kg	Total PCB's			74.00			0.00	0.00	0.00	0.00		0.00	
P A R T I C L E S I Z E & F I N E R	D O C U M E N T S	3 in					100.00		100.00		100.00		100.00	
		1 1/2			100.00			100.00	100.00	100.00		100.00		100.00
		3/4			100.00			100.00	100.00	100.00		100.00		100.00
		3/8			100.00			100.00	100.00	100.00		100.00		100.00
		4	100.00		100.00	95.3	99.10	99.00	97.00	100.00	100.00	99.1	90.00	
		8			100.00				90.00	99.00				
		10	99.8			83.9	84.96	97.00			99.00	92.5	49.00	
		16	98.4		99.0	57.8			76.0	91.0		69.6		
		18.00												
		20		100.00			50.28	87.0			92.0		22.0	
		30	96.9		97.0	17.0			39.0	53.0		19.8		
		40		99.7	94.0		7.67	53.0	16.0	26.0	34.0		11.0	
		50	96.9		90.0	17.0			6.0	9.0		19.8		
		60						1.05						
70			87.0				4.0	5.0						
80	96.0			0.9	0.72	40.0			1.0	3.1	5.0			
100	84.5	99.0	85.0	0.0	0.64		4.0	4.0		2.5				
140	59.9	98.5								2.4				
200	34.0	96.9	83.0		0.56	37.0	3.0	3.0	0.0	2.2	3.0			
270	19.6		82.0				3.0	3.0		1.6				
0.20 mm	14.2		60.0			22.0	1.0	1.0	0.0	1.2	1.0			
0.05 mm	10.8		32.0			10.0	0.0	0.0	0.0	0.8	0.0			
M I S C	%	Total Organic Car	1.53		0.02	< 1200					0.15			
	mg/kg	Chem Oxy Demand		7910.00		#####	1050.00	1990.00	1900.00		2800.00			
	mg/kg	Kjedahl Nitrogen		760.00			76.00	9700.00	55.00	92.00	240.00	220.00		
	mg/kg	Total Phosph		400.00			160.00	1100.00	210.00	160.00	46.00	270.00		
	mg/kg	Oil and Grease		60.00				0.00	< 50	< 50	0.00	0.00		
	mg/kg	Cyanide, Total	< 0.6	< 0.11	< 0.59	< 0.41						< 0.63		
mg/kg	Ammonia	20.00		< 0.24	< 0.70						16.00			
mg/l	Ammonia Elutriate		0.90											
%	Moisture	17.3	54.10	15.3	14.40						20.40			
%	Total Solids	82.7	45.90	84.7	85.60						79.60			
%	Volatile Solids	1.1	7.35	0.1	0.0039						1.30			

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

Record #		90.00	91.00	531.00		92.00	93.00	94.00	95.00	532.00	96.00		
River Mile		809.6	808.5	808.3	808.3	808.0	808.0	807.8	807.8	807.3	805.6	805.0	
Location		PINE COULEE	TRUEDALE SLOUGH	TRUEDALE SLOUGH	TRUEDALE SLOUGH	TRUEDALE SLOUGH	TRUEDALE SLOUGH	FOUR MILE ISLAND	FOUR MILE ISLAND	FOUR MILE ISLAND	BIG RIVER	BIG RIVER	
Year		1982	1980	1989	2002	1979	1979	1978	1978	1989	1981	2002	
System		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Habitat Type		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Pool		3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Sam. Gear		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Sam. Depth		10.00	10.00	10.00		10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Data Cit.		COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	
C H C S	ug/kg	a-BHC		< 0.07	< 0.12					< 0.07		< 0.12	
	ug/kg	b-BHC		< 0.15	< 0.12					< 0.15		< 0.12	
	ug/kg	BHC		< 0.22	< 0.12					< 0.22		< 0.12	
	ug/kg	g-BHC (lindane)		< 0.1	< 0.12					< 0.1		< 0.12	
	ug/kg	Heptachlor		< 0.07	< 0.08					< 0.07		< 0.08	
	ug/kg	Aldrin		< 0.1						< 0.1			
	ug/kg	Heptachlorepoxyde		< 0.12	< 1.48					< 0.12		< 1.48	
	ug/kg	Endosulfan I		< 0.12						< 0.12			
	ug/kg	Dieldrin	< 0.1	< 0.2	< 0.12	< 0.12	0.00	0.00	0.00	0.00	< 0.12	1.00	< 0.12
	ug/kg	4,4'-DDE	< 0.1	< 0.2	< 0.1	< 0.12	0.00	0.00	0.00	0.00	< 0.1	< 0.1	< 0.12
	ug/kg	Endrin	< 0.1	< 0.2	< 0.22	< 0.12	0.00	0.00	0.00	0.00	< 0.22	< 0.1	< 0.12
	ug/kg	Endosulfan II			< 0.24						< 0.24		
	ug/kg	4,4'-DDD	< 0.1	< 0.2	< 0.27	< 0.12	0.00	0.00	0.00	0.00	< 0.27	1.40	< 0.12
	ug/kg	Endrinoldehyde			< 0.27						< 0.27		
	ug/kg	Sulfan sulfate			< 0.27						< 0.27		
	ug/kg	4,4'-DDT	1.00	< 0.4	< 0.32	< 0.24	0.00	0.00	0.00	0.00	< 0.32	0.70	< 0.24
	ug/kg	Methoxychlor			< 0.54						< 0.54		
	ug/kg	Endrinolone			< 0.27						< 0.27		
	ug/kg	Chlorodane	< 1	0.40	< 1.46		0.00	0.00	0.00	0.00	< 1.46	3.00	< 0.36
ug/kg	Toxaphene			< 1.46						< 1.46			
M E T A L S	mg/kg	Ag (silver)											
	mg/kg	Al (aluminum)											
	mg/kg	As (arsenic)	1.70		< 1	1.03	0.00	0.00	0.00	0.00	1.40	3.00	1.27
	mg/kg	B (boron)											
	mg/kg	Ba (barium)					30.00	30.00	10.00	30.00		20.00	
	mg/kg	Be (beryllium)											
	mg/kg	Cd (cadmium)	< 0.18	1.01	< 1.1	0.18	< 10	< 10	< 10	< 10	< 1.1	< 1	0.18
	mg/kg	Cr (chromium)	5.60	26.80	3.20	4.34	< 10	< 10	< 10	< 10	7.90	< 10	5.14
	mg/kg	Cu (copper)	2.80	2.16	8.70	1.94	20.00	< 10	< 10	< 10	4.00	2.00	2.73
	mg/kg	Fe (iron)	5900.00	7859.00			4300.00	5600.00	2400.00	5000.00		3000.00	
	mg/kg	Hg (mercury)	0.03	< 0.01	< 0.01	< 0.006	0.00	0.00	0.00	0.00	< 0.02	< 0.01	< 0.006
	mg/kg	Mg (magnesium)											
	mg/kg	Mn (manganese)			222.00	317	260.00	580.00	200.00	450.00	2600.00	310.00	317.00
	mg/kg	Mo (molybdenum)											
	mg/kg	Ni (nickel)	8.00	14.30	< 5.5	6.91	10.00	< 10	< 10	< 10	9.50	< 10	8.06
	mg/kg	Pb (lead)	4.00	3.40	2.40	3.76	< 10	< 10	< 10	< 10	2.30	< 10	4.72
mg/kg	Sb (antimony)												
mg/kg	Se (selenium)			< 0.84						< 0.82			
mg/kg	Sn (tin)												
mg/kg	Sr (strontium)												
mg/kg	Ti (titanium)												
mg/kg	Zn (zinc)	14.00	14.40	12.70	11.4	20.00	10.00	10.00	20.00	16.90	14.00	14.20	
mg/kg	V (vanadium)												
P C B ' S	ug/kg	Aroclor-1006		< 1.46						< 1.46			
	ug/kg	Aroclor-1221		< 1.46						< 1.46			
	ug/kg	Aroclor-1232		< 1.46						< 1.46			
	ug/kg	Aroclor-1242		< 1.46						< 1.46			
	ug/kg	Aroclor-1248		< 1.46						< 1.46			
	ug/kg	Aroclor-1254		< 3.05						< 3.05			
	ug/kg	Aroclor-1260		< 3.05						< 3.05			
	ug/kg	Total PCB's	0.00	0.00			0.00	3.00	0.00	0.00		2.00	
P A R T I C L E S I Z E & F I N E R	D I S T R I B U T I O N	3 in				100.00	100.00	100.00	100.00		100.00		
		1 1/2	100.00	100.00		100.00	100.00	100.00	100.00		100.00		
		3/4	100.00	100.00		100.00	100.00	100.00	100.00		100.00		
		3/8	99.00	100.00		100.00	100.00	100.00	100.00		100.00		
		4	92.00	100.00		97.10	100.00	100.00	94.00	100.00	93.07	96.00	99.30
		8	75.00	97.00			98.00						
		10				91.10		98.00	78.00	99.00	82.98	90.00	97.80
		16	54.0	91.0			87.0				67.0		
		18.00				79.8							93.0
		20						65.0	35.0	95.0		74.0	
	S I Z E	30	32.0	65.0							26.4		
		40	21.0	34.0			50.0	13.0	10.0	59.0		31.0	
		50	10.0	6.0		5.9					26.4		9.6
		60											
		70	6.0	3.0		0.5							0.7
		80						2.0	4.0	2.0	0.6	3.0	
		100	5.0	3.0		0.1	1.0				0.0		0.1
		140				0.1							0.1
		200	4.0	3.0		0.1	1.0	2.0	3.0	0.0		2.0	0.1
P A R T I C L E S I Z E	270	3.0	2.0										
	0.20 mm	1.0	2.0				0.0	1.0	0.0		0.0		
	0.05 mm	0.0	0.0			1.0	0.0	0.0	0.0		0.0		
M I S C	%	Total Organic Carbon		0.09	< 0.01					0.17		0.03	
	mg/kg	Chem Oxy Demand	2100.00	1040.00		624.00	10000.00	3000.00	1800.00		1600.00		
	mg/kg	Kjedahl Nitrogen	90.00	18.00		--	1100.00	5200.00	280.00		190.00		
	mg/kg	Total Phosph	160.00	140.00		511.00	260.00	290.00	170.00		440.00		
	mg/kg	Oil and Grease	55.00	< 50		670.00	0.00	0.00	0.00		100.00		
	mg/kg	Cyanide, Total			< 0.59	< .10				< 0.61		< 0.10	
	mg/kg	Ammonia			< 0.24					< 0.24		< 6	
	mg/l	Ammonia Elutriate											
	%	Moisture			15.9	17.9				17.6		20.1	
	%	Total Solids			84.1	82.1				82.4		79.9	
%	Volatile Solids			0.6	0.29				0.7		0.45		

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

Record #		97.00	533.00	802.7	98.00	99.00	802.5	802.5	534.00	100.00	101.00	535.00	
River Mile		804.6	802.8	802.7	802.7	802.5	802.5	802.5	802.1	801.9	801.9	801.8	
Location		BIG RIVER	MORGANS COULEE	COULTERS MORGANS 1	COULTERS IS MORGANS	COULTERS IS MORGANS	COULTERS IS MORGANS 2	COULTERS IS MORGANS 2dup	COULEE MORGANS	COULTERS MORGANS	COULTERS IS MORGANS	COULTERS M.SLOUGH	
Year		1981	1989	1994	1974	1981	1994	1994	1989	1978	1978	1989	
System		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Habitat Type		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Pool		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Sam. Gear		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Sam. Depth		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Data Cit.		COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	
C H C S	ug/kg	a-BHC	< 0.07	< 0.24			< 0.24	< 0.25	< 0.07			< 0.07	
	ug/kg	b-BHC	< 0.14	< 0.24			< 0.24	< 0.25	< 0.14			< 0.15	
	ug/kg	BHC	< 0.22	< 0.24			< 0.24	< 0.25	< 0.22			< 0.22	
	ug/kg	g-BHC (lindane)	< 0.1	< 0.24			< 0.24	< 0.25	< 0.1			< 0.1	
	ug/kg	Heptachlor	< 0.07	< 0.24			< 0.24	< 0.25	< 0.07			< 0.07	
	ug/kg	Aldrin	< 0.1						< 0.1			< 0.1	
	ug/kg	Heptachlorepoide	< 0.12						< 0.12			< 0.12	
	ug/kg	Endosulfan I	< 0.12						< 0.12			< 0.12	
	ug/kg	Dieldrin	< 0.1	< 0.12	< 0.48	< 10	< 0.1	< 0.47	< 0.49	< 0.12	0.00	0.00	< 0.12
	ug/kg	4,4'-DDE	< 0.1	< 0.1	< 0.48	< 10	< 0.1	< 0.47	< 0.49	< 0.1	0.00	0.00	< 0.1
	ug/kg	Endrin	< 0.1	< 0.22	< 0.48	< 10	< 0.1	< 0.47	< 0.49	< 0.22	0.00	0.00	< 0.22
	ug/kg	Endosulfan II	< 0.24							< 0.24			< 0.24
	ug/kg	4,4'-DDD	< 0.1	< 0.26	< 0.48	< 10	< 0.1	< 0.47	< 0.49	< 0.26	0.00	0.00	< 0.27
	ug/kg	Endrin aldehyde	< 0.26							< 0.26			< 0.27
	ug/kg	Sulfan sulfate	< 0.26							< 0.26			< 0.27
	ug/kg	4,4'-DDT	< 0.1	< 0.31	< 0.48	< 10	< 0.1	< 0.47	< 0.49	< 0.31	0.00	0.00	< 0.32
	ug/kg	Methoxychlor	< 0.53							< 0.53			< 0.54
	ug/kg	Endrin ketone	< 0.26							< 0.26			< 0.27
ug/kg	Chlorodane	< 1	< 1.44	< 0.24	< 10	< 1	< 0.24	< 0.25	< 1.44	0.00	0.00	< 1.46	
ug/kg	Toxaphene	< 1.44							< 1.44			< 1.46	
M E T A L S	mg/kg	Ag (silver)											
	mg/kg	Al (aluminum)											
	mg/kg	As (arsenic)	10.00	< 1	1.00	< 0.9	10.00	1.50	< 1	0.00	0.00	< 1	
	mg/kg	B (boron)											
	mg/kg	Ba (barium)	20.00				30.00			10.00	20.00		
	mg/kg	Be (beryllium)	< 1	< 1.1	< 0.11	< 1	< 1	0.25	< 1.1	< 10	< 10	< 1.1	
	mg/kg	Cd (cadmium)	30.00	5.50	6.30	5.00	< 10	6.90	19.40	< 10	< 10	6.60	
	mg/kg	Cr (chromium)	2.00	1.80	1.30	3.00	3.00	2.30	4.40	< 10	< 10	3.70	
	mg/kg	Cu (copper)	2000.00				2800.00			3700.00	2300.00		
	mg/kg	Fe (iron)	< 0.01	< 0.01	0.13	0.50	< 0.01	< 0.04	< 0.01	0.00	0.04	< 0.01	
	mg/kg	Hg (mercury)											
	mg/kg	Mg (magnesium)	150.00	3170.00	181.00		190.00	325.00	356.00	160.00	160.00	270.00	
	mg/kg	Mn (manganese)	< 10	< 5.5	5.00	3.00	< 10	6.30	10.00	< 10	< 10	< 5.5	
	mg/kg	Mo (molybdenum)	< 10	2.00	4.70	< 9	< 10	2.70	1.90	< 10	< 10	3.80	
	mg/kg	Ni (nickel)	< 0.85						< 0.85			< 0.84	
mg/kg	Pb (lead)												
mg/kg	Sb (antimony)												
mg/kg	Se (selenium)												
mg/kg	Sn (tin)												
mg/kg	Sr (strontium)	11.00	18.10	11.80	76.00	15.00	15.50	22.70	20.00	10.00	20.10		
mg/kg	Ti (titanium)												
mg/kg	Zn (zinc)												
mg/kg	V (vanadium)												
P C B S	ug/kg	Aroclor-1006	< 1.44	< 4.8			< 4.7	< 4.9	< 1.44			< 1.46	
	ug/kg	Aroclor-1221	< 1.44	< 4.8			< 4.7	< 4.9	< 1.44			< 1.46	
	ug/kg	Aroclor-1232	< 1.44	< 4.8			< 4.7	< 4.9	< 1.44			< 1.46	
	ug/kg	Aroclor-1242	< 1.44	< 4.8			< 4.7	< 4.9	< 1.44			< 1.46	
	ug/kg	Aroclor-1248	< 1.44	< 4.8			< 4.7	< 4.9	< 1.44			< 1.46	
	ug/kg	Aroclor-1254	< 3	< 4.8			< 4.7	< 4.9	< 3			< 3.05	
	ug/kg	Aroclor-1260	< 3	< 4.8			< 4.7	< 4.9	< 3			< 3.05	
	ug/kg	Total PCB's	0.00			0.00	0.00				0.00	0.00	
P A R T I C L E S I Z E & F I N E S S	D I S T R I B U T I O N	3 in				100.00					100.00		
		1 1/2	100.00			100.00	100.00			100.00	100.00		
		3/4	100.00			100.00	100.00			100.00	100.00		
		3/8	100.00			100.00	100.00			100.00	100.00		
		4	100.00	96.88	99.10	100.00	99.00	98.00		99.84	100.00	100.00	98.40
	S A N D	8	98.00			98.00	95.00				98.00		
		10		94.47	93.80			95.80		99.24		99.00	96.47
		16	92.0	91.0		81.0	82.0			93.0	94.0		89.1
		18.00											
		20			88.8			86.2				91.0	
	S I L T	30	65.0	71.7		53.0				48.6	76.0		62.4
		40	37.0		66.5	14.0	8.0	31.0			53.0	59.0	
		50	6.0	71.7		1.0				48.6	17.0		62.4
		60											
		70	0.0			0.0					2.0		
F I N E	80		8.6						3.8		1.0	9.2	
	100	0.0	0.6	1.2	0.0	0.0	1.0		0.5	0.0		0.3	
	140		0.6	0.8			0.9		0.5			0.3	
	200	0.0	0.5	0.5	0.0	0.0	0.3		0.4	0.0	0.0	0.2	
	270	0.0	0.4		0.0				0.3	0.0			
S L I A S	0.20 mm	0.0	0.3		0.0	0.0				0.0	0.0		
	0.05 mm	0.0	0.3		0.0	0.0				0.0	0.0		
M I S C	%	Total Organic Car	0.28	0.02			0.03	0.03	0.25			0.09	
	mg/kg	Chem Oxy Demand	5200.00		1500.00	431.00				2200.00	2200.00		
	mg/kg	Kjedahl Nitrogen	294.00		244.00	235.00				422.00	300.00		
	mg/kg	Total Phosph	--			247.00				--	110.00		
	mg/kg	Oil and Grease	0.00			0.00	< 6			100.00	0.00		
M I S C	mg/kg	Cyanide, Total	< 0.62	< 0.06					< 0.62			< 0.62	
	mg/kg	Ammonia	0.50						0.25			0.56	
	mg/l	Ammonia Elutriate		< 0.06				< 0.06	< 0.06				
	%	Moisture	19.8	17.8				14.2	16.0	19.8		19.6	
	%	Total Solids	80.2	82.2				85.8	84.0	80.2		80.4	
%	Volatile Solids	0.8	1.0				0.9	1.0	0.6		0.7		

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

Record #		801.5	102.00	536.00	1360.00	1366.00	1363.00	103.00	538.00	537.00			
River Mile		801.5	801.4	801.1	800.5	800.0	800.0	800.0	800.0	800.0	800.0		
Location		COULTERS IS MORGANS	COULTERS IS MORGANS	COULTERS IS M.SLOUGH	LARSON LAKE	Ab. L/D 3 - east	Ab. L/D 3 - west	Ab. L/D 3 - mid	BLW DIAMOND BLUFF	BLW DIAMOND BLUFF	BLW DIAMOND BLUFF	BLW DIAMOND BLUFF 1	
Year		2002	1981	1989	1994	1981	1981	1981	1981	1989	1994		
System		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Habitat Type		1.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Pool		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Sam. Gear		1.00	1.00	1.00	1.00	3.00	3.00	3.00	1.00	1.00	1.00	1.00	
Sam. Depth		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Data Cit.		COE	COE	COE	COE	MWCC	MWCC	MWCC	COE	COE	COE	COE	
C H C S	ug/kg	a-BHC	<0.12	< 0.07	0.12				< 0.08	< 0.08	< 0.24		
	ug/kg	b-BHC	<0.12	< 0.15	0.24				< 0.16	< 0.15	< 0.24		
	ug/kg	BHC	<0.12	< 0.22	0.36				< 0.25	< 0.23	< 0.24		
	ug/kg	g-BHC (lindane)	<0.12	< 0.1	0.16				< 0.11	< 0.1	< 0.24		
	ug/kg	Heptachlor	<0.08	< 0.07	0.12				< 0.08	< 0.08	< 0.24		
	ug/kg	Aldrin		< 0.1	0.16				< 0.11	< 0.1			
	ug/kg	Heptachlorepoxi	<1.48	< 0.12	0.20				< 0.14	< 0.13			
	ug/kg	Endosulfan I		< 0.12	0.20				< 0.14	< 0.13			
	ug/kg	Dieldrin	<0.12	< 0.1	< 0.12	0.20			< 0.1	< 0.14	< 0.49		
	ug/kg	4,4'-DDE	<0.12	< 0.1	< 0.1	0.16			< 0.1	< 0.11	< 0.49		
	ug/kg	Endrin	<0.12	< 0.1	< 0.22	0.36			< 0.1	< 0.25	< 0.49		
	ug/kg	Endosulfan II		< 0.24	0.40				< 0.27	< 0.25			
	ug/kg	4,4'-DDD	<0.12	< 0.1	< 0.27	0.44			< 0.1	< 0.3	< 0.49		
	ug/kg	Endrin aldehyde		< 0.27	0.44				< 0.3	< 0.28			
	ug/kg	Sulfan sulfate		< 0.27	0.44				< 0.3	< 0.28			
	ug/kg	4,4'-DDT	<0.24	< 0.1	< 0.32	0.52			< 0.1	< 0.36	< 0.49		
	ug/kg	Methoxychlor		< 0.54	0.88				< 0.6	< 0.56			
	ug/kg	Endrin ketone		< 0.27	0.44				< 0.3	< 0.28			
	ug/kg	Chlorodane	<0.36	< 1	< 1.46	2.41			< 1	< 1.64	< 0.24		
	ug/kg	Toxaphene		< 1.46	2.41				< 1.64	< 1.52			
M E T A L S	mg/kg	Ag (silver)				0.17	0.07	1.07					
	mg/kg	Al (aluminum)											
	mg/kg	As (arsenic)	1.30	6.00	< 1	5.00	2.53	0.53	1.07	10.00	< 1.2	< 1.1	0.81
	mg/kg	B (boron)											
	mg/kg	Ba (barium)		20.00						30.00			
	mg/kg	Be (beryllium)					0.18	0.13	0.14				
	mg/kg	Cd (cadmium)	0.17	< 1	< 1.1	< 2	0.36	0.07	0.11	< 1	< 1.3	< 1.2	< 0.12
	mg/kg	Cr (chromium)	4.65	< 10	5.00	33.10	18.30	7.70	9.40	< 10	7.90	5.40	5.80
	mg/kg	Cu (copper)	2.12	2.00	1.90	18.60	6.80	2.20	2.60	3.00	4.40	3.20	1.40
	mg/kg	Fe (iron)		2900.00						3000.00			
	mg/kg	Hg (mercury)	<0.006	< 0.01	< 0.01	< 0.2	0.03	0.02	0.01	< 0.01	< 0.01	< 0.01	< 0.04
	mg/kg	Mg (magnesium)											
	mg/kg	Mn (manganese)	320.00	190.00	169.00	817.00				170.00	562.00	370.00	192.00
	mg/kg	Mo (molybdenum)											
	mg/kg	Ni (nickel)	7.23	< 10	< 5.6	22.10	10.20	5.50	4.20	< 10	7.10	< 5.8	4.50
mg/kg	Pb (lead)	4.88	< 10	6.90	16.10	9.10	4.20	3.30	< 10	4.10	14.90	3.20	
mg/kg	Sb (antimony)												
mg/kg	Se (selenium)		< 0.85	< 1.6	0.13	0.13	0.11		< 1		< 0.89		
mg/kg	Sn (tin)												
mg/kg	Sr (strontium)												
mg/kg	Ti (titanium)												
mg/kg	Zn (zinc)	15.60	15.00	14.40	63.70	33.10	15.80	13.90	18.00	26.40	19.90	12.40	
mg/kg	V (vanadium)												
P C B S	ug/kg	Aroclor-1006		< 1.46	2.41				< 1.64	< 1.52	< 4.9		
	ug/kg	Aroclor-1221		< 1.46	2.41				< 1.64	< 1.52	< 4.9		
	ug/kg	Aroclor-1232		< 1.46	2.41				< 1.64	< 1.52	< 4.9		
	ug/kg	Aroclor-1242		< 1.46	2.41				< 1.64	< 1.52	< 4.9		
	ug/kg	Aroclor-1248		< 1.46	2.41				< 1.64	< 1.52	< 4.9		
	ug/kg	Aroclor-1254		< 3.05	5.03				< 3.43	< 3.18	< 4.9		
	ug/kg	Aroclor-1260		< 3.05	5.03				< 3.43	< 3.18	< 4.9		
	ug/kg	Total PCB's		0.00					0.00				
P A R T I C L E S I Z E % F I N E R	S I Z E	D I S T R I B U T I O N	3 in		100.00								
			1 1/2		100.00								
			3/4		100.00					100.00			
			3/8		100.00					100.00			
			4	99.00	100.00	99.46				99.00	99.51	98.93	100.00
			8							95.00			
			10	96.40	97.00	98.19					96.86	82.57	99.70
			16			94.9					89.0	91.7	79.5
			18.00	88.8									
			20		84.0								96.3
	30			75.7					69.0	67.9	66.6		
	40		49.0						52.0		65.8		
	50	15.8		75.7					21.0	67.9	66.6		
	60												
	70	2.4							3.0				
	80		2.0	7.6						21.7	19.6		
100	0.2		0.7					0.0	7.8	5.0	1.5		
140	0.1		0.7						7.0	4.7	1.0		
200	0.1	1.0	0.5					0.0	5.2	3.9	0.6		
270			0.4					0.0	3.7	3.1			
0.20 mm			0.3					0.0	3.0	2.5			
0.05 mm			0.2					0.0	2.0	1.6			
M I S C	%	Total Organic Car	0.03		0.13					0.69	0.42	0.03	
	mg/kg	Chem Oxy Demand		2200.00					2700.00				
	mg/kg	Kjedahl Nitrogen		260.00					242.00				
	mg/kg	Total Phosph		260.00					--				
	mg/kg	Oil and Grease		0.00					100.00				
	mg/kg	Cyanide, Total	<0.10	< 0.63	< 0.98				< 0.82	< 0.73	< 0.06		
mg/kg	Ammonia	<6	< 0.25					43.00	24.00				
mg/l	Ammonia Elutriate			113.00						< 0.06			
%	Moisture	18.1		20.9				38.7	31.2	21.4			
%	Total Solids	81.9		79.1				61.3	68.8	78.6			
%	Volatile Solids	0.37		0.6	6.2			3.4	2.1	0.9			

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

Record #		104.00											
River Mile		799.5	799.2	799.2	799.0	798.5	797.10	797.10	797.10	797.10	797.10	797.10	
Location		UPPER GOOSE LAKE	BLW DIAMOND BLUFF	BLW DIAMOND BLUFF 2	MID GOOSE LAKE	LOWER GOOSE LAKE	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	
Year		1994	1981	1994	1994	1994	1994	1994	1994	1994	1994	1994	
System		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Habitat Type		3.00	1.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Pool		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Sam. Gear		1.00	1.00	1.00	1.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00	
Sam. Depth		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Data Cit.		COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	
CHCS	ug/kg	a-BHC	0.13	< 0.24	0.13	0.14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	b-BHC	0.27	< 0.24	0.26	0.27	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	BHC	0.40	< 0.24	0.39	0.41	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	g-BHC (lindane)	0.18	< 0.24	0.17	0.18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	Heptachlor	0.13	< 0.24	0.13	0.14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	Aldrin	0.18		0.17	0.18							
	ug/kg	Heptachlorepoxi	0.22		0.21	0.23							
	ug/kg	Endosulfan I	0.22		0.21	0.23							
	ug/kg	Dieldrin	0.22	< 0.1	< 0.49	0.21	0.23	<2.0	<2.0	<2.0	<2.0	<2.0	
	ug/kg	4,4'-DDE	0.18	< 0.1	< 0.49	0.17	0.18	<2.0	<2.0	<2.0	<2.0	<2.0	
	ug/kg	Endrin	0.40	< 0.1	< 0.49	0.39	0.41	<2.0	<2.0	<2.0	<2.0	<2.0	
	ug/kg	Endosulfan II	0.44		0.43	0.45							
	ug/kg	4,4'-DDD	0.49	< 0.1	< 0.49	0.47	0.50	<2.0	<2.0	<2.0	<2.0	<2.0	
	ug/kg	Endrinaldehyde	0.49		0.47	0.50							
	ug/kg	Sulfan sulfate	0.49		0.47	0.50							
	ug/kg	4,4'-DDT	0.57	< 0.1	< 0.49	0.56	0.59	<2.0	<2.0	<2.0	<2.0	<2.0	
	ug/kg	Methoxychlor	0.97		0.94	0.99							
	ug/kg	Endrinetone	0.49		0.47	0.50							
ug/kg	Chlorodane	2.65	< 1	< 0.24	2.57	2.71	<1.0	<1.0	<1.0	<1.0	<1.0		
ug/kg	Toxaphene	2.65		2.57	2.71								
							1.00	4.00	5.00	6.00	14.00	13.00	
METALS	mg/kg	Ag (silver)											
	mg/kg	Al (aluminum)											
	mg/kg	As (arsenic)	2.50	17.00	1.10	5.10	3.80	4.40	3.10	7.00	10.00	5.50	
	mg/kg	B (boron)											
	mg/kg	Ba (barium)		20.00									
	mg/kg	Be (beryllium)	< 2.2	< 2	0.37	< 2.2	< 2.3	0.13	0.19	0.56	0.42	0.34	0.17
	mg/kg	Cd (cadmium)	25.30	< 10	6.50	26.20	24.60	8.50	6.90	12.00	18.00	13.00	15.00
	mg/kg	Cu (copper)	14.20	3.00	2.00	20.70	19.20	8.40	6.40	12.00	18.00	13.00	13.00
	mg/kg	Fe (iron)		2200.00									
	mg/kg	Hg (mercury)	< 0.22	< 0.01	0.12	< 0.22	< 0.23	0.04	<0.029	0.14	0.20	0.08	0.07
	mg/kg	Mg (magnesium)											
	mg/kg	Mn (manganese)	1010.00	130.00	221.00	1150.00	1100.00	560.00	280.00	450.00	690.00	520.00	530.00
	mg/kg	Mo (molybdenum)											
	mg/kg	Ni (nickel)	21.30	< 10	4.70	24.20	17.90	14.00	11.00	15.00	20.00	18.00	19.00
	mg/kg	Pb (lead)	8.80	< 20	3.20	18.20	17.30	6.00	4.10	15.00	18.00	10.00	8.80
mg/kg	Sb (antimony)												
mg/kg	Se (selenium)	< 1.8		< 1.7	< 1.8	<1.8	<1.8	<1.8	<2.0	<2.0	<2.0	<2.0	
mg/kg	Sn (tin)												
mg/kg	Sr (strontium)												
mg/kg	Ti (titanium)												
mg/kg	Zn (zinc)	74.80	16.00	13.90	107.00	75.00	38.00	33.00	58.00	75.00	69.00	67.00	
mg/kg	V (vanadium)												
PCB'S	ug/kg	Aroclor-1006	2.65	< 4.9	2.57	2.71							
	ug/kg	Aroclor-1221	2.65	< 4.9	2.57	2.71	<40	<40	<40	<40	<40	<40	
	ug/kg	Aroclor-1232	2.65	< 4.9	2.57	2.71	<20	<20	<20	<20	<20	<20	
	ug/kg	Aroclor-1242	2.65	< 4.9	2.57	2.71	<20	<20	<20	<20	<20	<20	
	ug/kg	Aroclor-1248	2.65	< 4.9	2.57	2.71	<20	<20	<20	<20	<20	<20	
	ug/kg	Aroclor-1254	5.53	< 4.9	5.35	5.65	<20	<20	86.00	44.00	144.00	<20	
	ug/kg	Aroclor-1260	5.53	< 4.9	5.35	5.65	<20	<20	<20	<20	<20	<20	
	ug/kg	Total PCB's		0.00									
PARTICLE SIZE & FINE	SAND	3 in											
		1 1/2											
		3/4	100.00										
		3/8	100.00										
		4	100.00	99.40									
		8	96.00										
	SILT	16		83.0									
		18.00											
		20			88.0								
		30		49.0									
		40		28.0	62.1								
		50		9.0									
FINE	60												
	70		1.0										
	80												
	100		0.0	4.3									
	140			3.1									
	200		0.0	2.7									
SLAY	270		0.0										
	0.20 mm		0.0										
	0.05 mm		0.0										
MISC	%	Total Organic Car		0.05			2.44	2.51	2.75	2.15	1.92	1.60	
	mg/kg	Chem Oxy Demand	2400.00										
	mg/kg	Kjedahl Nitrogen	249.00										
	mg/kg	Total Phosph	--										
	mg/kg	Oil and Grease	0.00										
mg/kg	Cyanide, Total	< 1.1	< 0.06	< 1.1	< 1.1	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33		
mg/kg	Ammonia												
mg/l	Ammonia Elutriate	204.00	< 0.06	388.00	249.00								
%	Moisture		21.7			30.10	31.70	32.70	37.00	36.50	38.20		
%	Total Solids		78.3			69.90	68.30	67.30	63.00	63.50	61.80		
%	Volatile Solids	6.7	1.1	8.4	11.8	2.85	3.10	2.99	4.08	4.20	4.04		

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

Record #		797.20	797.20	797.20	797.20	797.20	792.90	792.30	792.30	792.30	344.00	341.00	
River Mile		797.20	797.20	797.20	797.20	797.20	792.90	792.30	792.30	792.30	797.3	797.3	
Location		Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	CANNON	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	
Year		1994	1994	1994	1994	1994	2008	1994	1994	1994	1986	1986	
System		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Habitat Type		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	1.00	
Pool		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Sam. Gear		3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	1.00	1.00	
Sam. Depth		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Data Cit.		COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	COE	
C H C S	ug/kg	a-BHC	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	b-BHC	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	BHC											
	ug/kg	g-BHC (lindane)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	ug/kg	Heptachlor	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0		
	ug/kg	Aldrin											
	ug/kg	Heptachlorepoxyde											
	ug/kg	Endosulfan I											
	ug/kg	Dieldrin	<2.0	<2.0	<2.0	<2.0	<2.0	<3.2	<2.0	<2.0	<2.0	<2.0	
	ug/kg	4,4'-DDE	<2.0	<2.0	<2.0	<2.0	<2.0	<3.5	<2.0	<2.0	<2.0	<2.0	
	ug/kg	Endrin	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	
	ug/kg	Endosulfan II											
	ug/kg	4,4'-DDD	<2.0	<2.0	<2.0	<2.0	<2.0	<3.7	<2.0	<2.0	<2.0	<2.0	
	ug/kg	Endrinaldehyde											
	ug/kg	Sulfan sulfate											
	ug/kg	4,4'-DDT	<2.0	<2.0	<2.0	<2.0	<2.0	<4.2	<2.0	<2.0	<2.0	<2.0	
	ug/kg	Methoxychlor											
	ug/kg	Endrin ketone											
ug/kg	Chlorodane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
ug/kg	Toxaphene												
		3.00	7.00	8.00	12.00	11.00		2.00	10.00	9.00			
M E T A L S	mg/kg	Ag (silver)											
	mg/kg	Al (aluminum)									2600.00	2700.00	
	mg/kg	As (arsenic)	6.00	12.00	8.70	6.40	5.30	0.84	3.90	8.70	6.80	0.48	0.20
	mg/kg	B (boron)											
	mg/kg	Ba (barium)									17.00	18.00	
	mg/kg	Be (beryllium)											
	mg/kg	Cd (cadmium)	0.21	1.30	1.50	0.77	0.71	<1.0	0.23	1.10	1.10	0.21	0.23
	mg/kg	Cr (chromium)	8.80	28.00	23.00	19.00	19.00	3.80	8.70	22.00	20.00	6.40	9.00
	mg/kg	Cu (copper)	7.60	25.00	22.00	19.00	20.00	<1.0	7.00	12.00	11.00	2.00	10.00
	mg/kg	Fe (iron)											
	mg/kg	Hg (mercury)	0.05	0.11	0.17	0.11	0.13	<0.10	0.08	0.16	0.07	0.03	0.01
	mg/kg	Mg (magnesium)											
	mg/kg	Mn (manganese)	350.00	860.00	530.00	740.00	710.00	469.00	190.00	600.00	560.00	190.00	250.00
	mg/kg	Mo (molybdenum)											
	mg/kg	Ni (nickel)	13.00	24.00	22.00	20.00	20.00	3.50	11.00	21.00	21.00	6.00	5.80
mg/kg	Pb (lead)	7.20	20.00	19.00	15.00	15.00	1.80	8.80	17.00	15.00	7.60	7.10	
mg/kg	Sb (antimony)												
mg/kg	Se (selenium)	<1.7	<2.8	<2.5	<2.5	<2.5		<1.7	<2.4	<2.4	<0.2	<0.2	
mg/kg	Sn (tin)												
mg/kg	Sr (strontium)												
mg/kg	Ti (titanium)												
mg/kg	Zn (zinc)	37.00	100.00	170.00	91.00	86.00	8.20	38.00	89.00	82.00	13.00	13.00	
mg/kg	V (vanadium)												
P C B ' S	ug/kg	Aroclor-1006					<31						
	ug/kg	Aroclor-1221	<40	<40	<40	<40	<40	<40	<40	<40			
	ug/kg	Aroclor-1232	<20	<20	<20	<20	<20	<20	<20	<20			
	ug/kg	Aroclor-1242	<20	<20	<20	<20	<20	<20	<20	<20			
	ug/kg	Aroclor-1248	<20	<20	<20	<20	<20	<29	<20	<20	<20		
	ug/kg	Aroclor-1254	<20	<20	1195.00	205.00	167.00	<10	66.00	1011.00	502.00		
	ug/kg	Aroclor-1260	<20	<20	<20	<20	<20	<19	<20	<20	<20		
	ug/kg	Total PCB's										0.00	0.00
P A R T I C L E S I Z E % F I N E R	D I S T R I B U T I O N	3 in											
		1 1/2											
		3/4											
		3/8											
		4						100.00					
		8											
		10							99.68				
	S I Z E	16											
		18.00											
		20								98.13			
		30											
		40								56.29			
		50											
		60								13.92			
F I N E	70												
	80								4.75				
	100								3.43				
	140												
	200												
	270												
	0.20 mm												
0.05 mm													
M I S C	%	Total Organic Carbon	1.90	3.50	3.49	3.45	3.30	<1200	2.02	2.35	2.62		
	mg/kg	Chem Oxy Demand											
	mg/kg	Kjedahl Nitrogen						71.00					
	mg/kg	Total Phosph						180.00					
	mg/kg	Oil and Grease											
M I S C	mg/kg	Cyanide, Total	<0.33	<0.33	<0.33	2.30	0.47	<0.41	<0.33	<0.33	<0.33		
	mg/kg	Ammonia											
	mg/l	Ammonia Elutriate											
	%	Moisture	25.00	32.70	49.20	49.40	50.60	14.80	28.50	47.00	48.20		
	%	Total Solids	75.00	43.80	50.80	50.60	49.40	85.20	71.50	53.00	51.80		
%	Volatile Solids	2.22	5.94	5.10	5.90	5.50	0.0035	2.41	5.24	3.81			

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

		Record #	342.00	340.00	347.00	346.00	345.00	339.00	343.00	1371.00	1397.00	1375.00	1379.00	
		River Mile	797.3	797.3	797.3	797.3	797.3	797.3	797.3	797.0	797.0	797.0	797.0	
		Location	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Above lock and dam 3	Ab. L/D 3 - east	Ab. L/D 3 - west	Ab. L/D 3 - mid	Ab. L/D 3 - west	
		Year	1986	1986	1986	1986	1986	1986	1986	1982	1982	1982	1982	
		System	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
		Habitat Type	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
		Pool	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
		Sam. Gear	1.00	1.00	1.00	1.00	1.00	1.00	1.00	3.00	3.00	3.00	3.00	
		Sam. Depth	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
		Data Cit.	COE	COE	COE	COE	COE	COE	COE	MWCC	MWCC	MWCC	MWCC	
C H C L S	ug/kg	a-BHC												
	ug/kg	b-BHC												
	ug/kg	BHC												
	ug/kg	g-BHC (lindane)												
	ug/kg	Heptachlor												
	ug/kg	Aldrin												
	ug/kg	Heptachlorepoxyde												
	ug/kg	Endosulfan I												
	ug/kg	Dieldrin												
	ug/kg	4,4'-DDE												
	ug/kg	Endrin												
	ug/kg	Endosulfan II												
	ug/kg	4,4'-DDD												
	ug/kg	Endrinaldehyde												
ug/kg	Sulfan sulfate													
ug/kg	4,4'-DDT													
ug/kg	Methoxychlor													
ug/kg	Endrin ketone													
ug/kg	Chlorodane													
ug/kg	Toxaphene													
M E T A L S	mg/kg	Ag (silver)								0.10	0.11	0.10	0.16	
	mg/kg	Al (aluminum)	1800.00	2600.00	1700.00	2100.00	3250.00	1950.00	3000.00					
	mg/kg	As (arsenic)	1.13	0.31	0.78	0.37	1.38	0.25	0.72	1.96	1.34	1.62	5.03	
	mg/kg	B (boron)												
	mg/kg	Ba (barium)	13.00	10.00	13.00	13.00	24.00	9.90	25.00					
	mg/kg	Be (beryllium)								0.17	0.13	0.10	0.52	
	mg/kg	Cd (cadmium)	0.24	0.19	0.17	0.21	0.33	0.19	0.47	0.12	0.21	0.08	0.21	
	mg/kg	Cr (chromium)	5.00	5.00	4.50	5.30	9.40	5.00	9.40	11.40	11.00	14.50	28.50	
	mg/kg	Cu (copper)	9.00	1.30	1.30	1.90	4.30	1.70	3.60	3.20	4.50	2.50	13.00	
	mg/kg	Fe (iron)												
	mg/kg	Hg (mercury)	0.01	0.01	0.01	0.01	0.05	0.01	0.02	0.05	0.05	0.05	0.05	
	mg/kg	Mg (magnesium)												
	mg/kg	Mn (manganese)	180.00	120.00	120.00	140.00	210.00	130.00	250.00	580.80	334.60	400.60	1408.80	
	mg/kg	Mo (molybdenum)												
mg/kg	Ni (nickel)	4.40	4.80	3.70	4.90	5.60	4.30	8.60	7.40	7.50	9.30	18.70		
mg/kg	Pb (lead)	6.60	5.60	5.70	6.30	11.60	5.20	10.80	3.50	5.10	2.60	6.00		
mg/kg	Sb (antimony)													
mg/kg	Se (selenium)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.05	0.12	0.05	0.06		
mg/kg	Sn (tin)													
mg/kg	Sr (strontium)													
mg/kg	Ti (titanium)								0.60	0.60	0.70	0.80		
mg/kg	Zn (zinc)	11.50	10.00	9.40	11.00	19.50	10.50	20.50	19.20	22.80	17.20	52.20		
mg/kg	V (vanadium)													
P C B 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
P A R T I C L E S I Z E % F I N E R	C O A R S	3 in												
		1 1/2												
		3/4								100.00				
		3/8								100.00				
		4								100.00				
		8								100.00				
	S A N D	16												
		18.00									99.0			
		20												
		30									87.0			
		40									71.0			
		50									40.0			
	F I N E	60												
		70									10.0			
80														
100										1.0				
S I L T	140													
	200									1.0				
C L A Y	270									0.0				
	0.20 mm									0.0				
		0.05 mm								0.0				
M I S C	%	Total Organic Carbon												
	mg/kg	Chem Oxy Demand								1800.00				
	mg/kg	Kjedahl Nitrogen								295.00				
	mg/kg	Total Phosph								--				
	mg/kg	Oil and Grease								0.00				
mg/kg	Cyanide, Total													
mg/kg	Ammonia													
mg/l	Ammonia Elutriate													
%	Moisture													
%	Total Solids													
%	Volatile Solids													

Table 5. Contaminant Data for Pool 3 of the Upper Mississippi River

	Record #	1418.00	1414.00	
	River Mile	797.0	797.0	
		Ab. L/D	Ab. L/D	
	Location	3 - west	3 - mid	
	Year	1985	1985	
	System	1.00	1.00	
	Habitat Type	1.00	1.00	
	Pool	3.00	3.00	
	Sam. Gear	3.00	3.00	
	Sam. Depth	10.00	10.00	
	Data Cit.	MWCC	MWCC	
C H C L O R I N E S	ug/kg	a-BHC	< 0.26 < 0.26	
	ug/kg	b-BHC	< 0.53 < 0.53	
	ug/kg	BHC		
	ug/kg	g-BHC (lindane)	< 0.26 < 0.26	
	ug/kg	Heptachlor	< 0.26 < 0.26	
	ug/kg	Aldrin		
	ug/kg	Heptachlorepoide		
	ug/kg	Endosulfan I		
	ug/kg	Dieldrin	< 0.79 < 0.79	
	ug/kg	4,4'-DDE	< 0.79 < 0.79	
	ug/kg	Endrin	< 1.1 < 1.1	
	ug/kg	Endosulfan II		
	ug/kg	4,4'-DDD	< 1.6 < 1.6	
	ug/kg	Endrinaldehyde		
	ug/kg	Sulfan sulfate		
	M E T A L S	mg/kg	Ag (silver)	0.01 0.01
mg/kg		Al (aluminum)		
mg/kg		As (arsenic)	1.44 1.62	
mg/kg		B (boron)		
mg/kg		Ba (barium)		
mg/kg		Be (beryllium)	0.08 0.09	
mg/kg		Cd (cadmium)	0.06 0.06	
mg/kg		Cr (chromium)	7.50 6.70	
mg/kg		Cu (copper)	1.40 1.60	
mg/kg		Fe (iron)		
mg/kg		Hg (mercury)	0.05 0.05	
mg/kg		Mg (magnesium)		
mg/kg		Mn (manganese)	135.00 221.50	
mg/kg		Mo (molybdenum)		
mg/kg		Ni (nickel)	4.60 4.90	
mg/kg		Pb (lead)	2.50 3.00	
mg/kg	Sb (antimony)	3.40 3.30		
mg/kg	Se (selenium)	0.13 0.12		
mg/kg	Sn (tin)			
mg/kg	Sr (strontium)			
mg/kg	Ti (titanium)	1.40 1.40		
mg/kg	Zn (zinc)	11.60 13.10		
mg/kg	V (vanadium)			
P C B ' S	ug/kg	Aroclor-1006	35.00 27.70	
	ug/kg	Aroclor-1221		
	ug/kg	Aroclor-1232		
	ug/kg	Aroclor-1242		
	ug/kg	Aroclor-1248		
	ug/kg	Aroclor-1254	< 5.3 < 5.3	
	ug/kg	Aroclor-1260	< 5.3 < 5.3	
	ug/kg	Total PCB's		
P A R T I C L E S I Z E % F I N E R	S I Z E	C O A R S	3 in	
			1 1/2	
			3/4	
			3/8	
			4	
			8	
			10	
	P A R T I C L E S	F I N E	16	
			18.00	
			20	
			30	
			40	
			50	
			60	
S I Z E	C L A S S	70		
		80		
		100		
S I Z E	C L A S S	140		
		200		
M I S C	%	Total Organic Car		
	mg/kg	Chem Oxy Demand		
	mg/kg	Kjedahl Nitrogen		
	mg/kg	Total Phosph		
	mg/kg	Oil and Grease		
	mg/kg	Cyanide, Total		
	mg/kg	Ammonia		
	mg/l	Ammonia Elutriate		
	%	Moisture		
	%	Total Solids		
%	Volatile Solids			