2009
Sampling DATA

Table 4-1a
Dioxin/Furan and PCB Congener Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-01	SE-SS-02	SE-SS-03	SE-SS-04	SE-SS-05	SE-SS-05	SE-SS-06	SE-SS-07	SE-SS-08
		Field Sample ID	SE-SS-01-110409	SE-SS-02-110409	SE-SS-03-110409	SE-SS-04-110409	SE-SS-05-110409	SE-SS-05-110409-D	SE-SS-06-110409	SE-SS-07-110409	SE-SS-08-110409
		Sampling Location	Ex.6: Home Addresses [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Exemption 6-Personal Addresses [redacted]	[redacted]	[redacted]
		Sampling Date	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009
Chemical Name	Unit	Current SL (ppt)									
Solids, Total	%		79.3	79.2	77.8	77.4	79.7	80.2	72.5	78.4	82.1
Dioxin-Furans											
1,2,3,4,6,7,8-HpCDD	ppt	---	278	293	836 E	1,290 E	257	302	981 E	1,560 E	1,620 E
1,2,3,4,6,7,8-HpCDF	ppt	---	80.4	111	256	369	60.7	71.6	261	479	296
1,2,3,4,7,8,9-HpCDF	ppt	---	8.95	12.3	14.7	33.2	6.47	7.29	28	81.2	28.5
1,2,3,4,7,8-HxCDD	ppt	---	2.17 J	3.23	10.4	12.2	3.03	3.09	10.1	14.2	13.9
1,2,3,4,7,8-HxCDF	ppt	---	8.64	12.9	30	51.2	8.05	9.01	29.4	59.8	26.8
1,2,3,6,7,8-HxCDD	ppt	---	10.3	11.2	28.2	43.3	8.05	10.1	31.5	50.3	35.6
1,2,3,6,7,8-HxCDF	ppt	---	5.4	8.85	19.1	29.8	4.31	5.31	17.6	32.6	14.5
1,2,3,7,8,9-HxCDD	ppt	---	7.14	7.63	27.6	31.7	5.92	7.62	24.7	37.2	36.2
1,2,3,7,8,9-HxCDF	ppt	---	2.92 U	2.98 U	3.12 U	2.85 U	2.94 U	3.05 U	3.35 U	3.09 U	2.74 U
1,2,3,7,8-PeCDD	ppt	---	2.25 J	2.54 J	4.51 K	7.52	1.7 J	1.9 J	5.92	9.89	7.28
1,2,3,7,8-PeCDF	ppt	---	2.51 J	4.07	5.36	11.6	2.18 J	2.36 J	7.9	14.2	6.12
2,3,4,6,7,8-HxCDF	ppt	---	5.46	9.4	23.8	35.1	3.96	6.24	18.4	39.1	19.6
2,3,4,7,8-PeCDF	ppt	---	2.51 J	3.56	7.49	16.2	3.03	2.72 J	8.78	14.7	8.2
2,3,7,8-TCDD	ppt	---	1.17 U	1.18 J	1.21 JK	3.91	0.711 J	0.858 J	2.62	4.85	2.28
2,3,7,8-TCDF	ppt	---	2.82	5.94	4.44	16.8	2.29 K	2.72	8.87	13.1	5.93
OCDD	ppt	---	4,440 E	4,430 BE	7,880 BE	18,500 BE	4,020 BE	4,690 BE	37,700 BE	19,800 BE	18,700 BE
OCDF	ppt	---	288	377	612	1,440 E	245	295	1,130	2,700 E	1,400 E
Total Hepta-Dioxins	ppt	---	608	645	1,750	2,960	620	742	2,910	4,200	7,800
Total Hepta-Furans	ppt	---	239	299	608	1,110	185	222	780	1,670	988
Total Hexa-Dioxins	ppt	---	89.1	102	306	392	81.6	97.3	368	542	901
Total Hexa-Furans	ppt	---	91.9	153	339	604	84.2	98.4	319	646	350
Total Penta-Dioxins	ppt	---	32.5	36.2	36.9	85.5	21.5	24.4	70.5	127	91.9
Total Penta-Furans	ppt	---	50.5	112	185	459	58.3	70.6	177	351	144
Total Tetra-Dioxins	ppt	---	15.4	26.2	44.3	94.7	17.2	21.2	87.5	155	41.2
Total Tetra-Furans	ppt	---	45.2	77.9	111	234	43.7	42.4	77.9	231	80.4
Total TEQ	ppt	---	12.4	16.4	36.1	61.6	11.5	13.4	49.8	72.2	52.9
PCB Congeners											
PCB 81	ppt	---	NA	NA	NA	90.7 J	NA	NA	NA	NA	NA
PCB 77	ppt	---	NA	NA	NA	1,830	NA	NA	NA	NA	NA
PCB 123	ppt	---	NA	NA	NA	5,130	NA	NA	NA	NA	NA
PCB 118	ppt	---	NA	NA	NA	273000 B	NA	NA	NA	NA	NA
PCB 114	ppt	---	NA	NA	NA	1,890	NA	NA	NA	NA	NA
PCB 105	ppt	---	NA	NA	NA	99,300 B	NA	NA	NA	NA	NA
PCB 126	ppt	---	NA	NA	NA	355	NA	NA	NA	NA	NA
PCB 167	ppt	---	NA	NA	NA	33,100 B	NA	NA	NA	NA	NA
PCBs 156 + 157	ppt	---	NA	NA	NA	94,300 B	NA	NA	NA	NA	NA
PCB 169	ppt	---	NA	NA	NA	185	NA	NA	NA	NA	NA
PCB 189	ppt	---	NA	NA	NA	2,420	NA	NA	NA	NA	NA
Total TEQ	ppt	---	NA	NA	NA	56.5	NA	NA	NA	NA	NA
Total TEQ											
Total TEQ	ppt	~~1,000~~ 50	12.4	16.4	36.1	118.1	11.5	13.4	49.8	72.2	52.9

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TAG SHOULD INCLUDE THIS LINE — COLOR CODE IN RED SAMPLE RESULTS HIGHLIGHTED IN YELLOW (anything above 50)

Table 4-1a
Dioxin/Furan and PCB Congener Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-09	SE-SS-10	SE-SS-11	SE-SS-12	SE-SS-13	SE-SS-14	SE-SS-15	SE-SS-16
		Field Sample ID	SE-SS-09-110409	SE-SS-10-110409	SE-SS-11-110409	SE-SS-12-110409	SE-SS-13-110509	SE-SS-14-110509	SE-SS-15-110509	SE-SS-16-110509
		Sampling Location	Ex.6-Home Addresses [redacted]	Ex.6-Home Addresses [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted] E. St. Louis	[redacted] E. St. Louis
		Sampling Date	11/4/2009	11/4/2009	11/4/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009
Chemical Name	Unit	Current SL (ppt)								
Solids, Total	%		76.7	75.2	78.5	72.4	69.8	77.2	68.3	72.2
Dioxin-Furans										
1,2,3,4,6,7,8-HpCDD	ppt	---	236	1,190 E	1,140 E	2,370 E	722 E	654 E	3,240 E	1,390 E
1,2,3,4,6,7,8-HpCDF	ppt	---	52.8	306	244	516	240	157	1,200 E	403
1,2,3,4,7,8,9-HpCDF	ppt	---	4.53	30.3	28.1	38	38.5	15.1	140	49.5
1,2,3,4,7,8-HxCDD	ppt	---	2.69 J	12.6	16.5	24.3	12.7	5.83	46.8	19
1,2,3,4,7,8-HxCDF	ppt	---	8.33	35.8	31.7	40.4	40.7	19.2	210	57.9
1,2,3,6,7,8-HxCDD	ppt	---	7.28	40.4	37.2	57.9	22.8	19.9	104	45.3
1,2,3,6,7,8-HxCDF	ppt	---	3.77	18.4	12.7	13.5 K	19.6	6.36	81.6	25.6
1,2,3,7,8,9-HxCDD	ppt	---	5.83	28.4	32.2	46	21.4	11.9	94	36.4
1,2,3,7,8,9-HxCDF	ppt	---	3.15 U	3.15 U	3.07 U	2.89 U	3.12 U	3.2 U	3.65 U	3.35 U
1,2,3,7,8-PeCDD	ppt	---	1.36 J	8.23	8.26	10.6	7.82	3.44	27.6	11.1
1,2,3,7,8-PeCDF	ppt	---	1.75 J	9.37	6.11	6.91	12.3	3.79	44.4	13.7
2,3,4,6,7,8-HxCDF	ppt	---	4.37	15.6	18.2	25	14.6	11.6	66	24.2
2,3,4,7,8-PeCDF	ppt	---	1.94 J	13.3	6.26	8.83	10.9	4.65	53.9	14.8
2,3,7,8-TCDD	ppt	---	1.26 U	9.12	2.77	7	2.28	1.98	13.9	6.73
2,3,7,8-TCDF	ppt	---	1.45	10.5	6.21	8.92	10.7	5.55	56.3	15.7
OCDD	ppt	---	3,660 BE	17,200 BE	10,700 BE	28,700 BE	6,440 BE	12,000 BE	37,000 BE	23,800 BE
OCDF	ppt	---	205	1,410 E	925	2,210 E	828	404	3,520 E	1,460 E
Total Hepta-Dioxins	ppt	---	878	3,260	2,290	5,030	1,360	1,350	6,520	2,860
Total Hepta-Furans	ppt	---	151	995	865	1,900	708	578	3,840	1,300
Total Hexa-Dioxins	ppt	---	109	459	345	458	240	172	964	419
Total Hexa-Furans	ppt	---	64.8	395	304	488	341	226	1,280	376
Total Penta-Dioxins	ppt	---	10.1	108	147	110	118	42.5	352	140
Total Penta-Furans	ppt	---	30.8	217	147	177	207	123	959	295
Total Tetra-Dioxins	ppt	---	6.28	148	101	187	132	25	358	195
Total Tetra-Furans	ppt	---	13.3	184	136	179	203	86.7	995	302
Total TEQ	ppt	---	9.46	58.6	46.2	80.6	40.2	27	183	71.1
PCB Congeners										
PCB 81	ppt	---	NA	NA	NA	119 J	NA	77.8 J	436	NA
PCB 77	ppt	---	NA	NA	NA	1,510	NA	1,220	13,900 B	NA
PCB 123	ppt	---	NA	NA	NA	683	NA	1,270	9,570	NA
PCB 118	ppt	---	NA	NA	NA	22,400 E	NA	74,000 B	491,000 B	NA
PCB 114	ppt	---	NA	NA	NA	826	NA	1,780	8,240	NA
PCB 105	ppt	---	NA	NA	NA	15,100 E	NA	34,500 B	259,000 B	NA
PCB 126	ppt	---	NA	NA	NA	279	NA	102 J	2,240	NA
PCB 167	ppt	---	NA	NA	NA	2150 B	NA	3,540	44,000 B	NA
PCBs 156 + 157	ppt	---	NA	NA	NA	6800 B	NA	14,800 B	147,000 B	NA
PCB 169	ppt	---	NA	NA	NA	59.1 J	NA	53.6 J	181	NA
PCB 189	ppt	---	NA	NA	NA	627	NA	579	2,960	NA
Total TEQ	ppt	---	NA	NA	NA	31.3	NA	15.9	260	NA
Total TEQ										
Total TEQ	ppt	~~1,000~~ 50	9.46	58.6	46.2	111.9	40.2	42.9	443	71.1

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Table 4-1a
Dioxin/Furan and PCB Congener Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-17	SE-SS-18	SE-SS-19	SE-SS-20	SE-SS-21	SE-SS-22	SE-SS-23	SE-SS-23	SE-SS-24
		Field Sample ID	SE-SS-17-110509	SE-SS-18-110509	SE-SS-19-110509	SE-SS-20-110509	SE-SS-21-110509	SE-SS-22-110509	SE-SS-23-110509	SE-SS-23-110509-D	SE-SS-24-110609
		Sampling Location	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Exemption 6-Home Addresses	[redacted]	[redacted]
		Sampling Date	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/6/2009
Chemical Name	Unit	Current SL (ppt)									
Solids, Total	%		74.3	74.6	74.4	76.5	76.4	79.1	79.5	77	74
Dioxin-Furans											
1,2,3,4,6,7,8-HpCDD	ppt	---	5,610 E	8,840 B	1,730 BE	2,730 B	16,500 B	72.9 B	2,570 BE	1,780 BE	2,910 BE
1,2,3,4,6,7,8-HpCDF	ppt	---	2,260	3,290 B	508 B	707 B	6,060 B	19.6 B	771 BE	536 B	1,040 BE
1,2,3,4,7,8,9-HpCDF	ppt	---	156	190	27.3	57.7	293	1.29 J	54.9	34.6	71.5
1,2,3,4,7,8-HxCDD	ppt	---	51.1 K	59.7	11.2	17.6	118	0.891 J	24.1	11.7	20.7
1,2,3,4,7,8-HxCDF	ppt	---	144	147	35	46.2	199	1.66 J	47.9	29.7	57.2
1,2,3,6,7,8-HxCDD	ppt	---	163	234	46.2	95.8	385	2.31 JK	67.8	50.1	83.2
1,2,3,6,7,8-HxCDF	ppt	---	58.1	69	10.7	13	83.4 K	0.795 JK	25	14.2	25.9
1,2,3,7,8,9-HxCDD	ppt	---	139	131	27.5	47.1	257	2.35 J	96.7	32	52.4
1,2,3,7,8,9-HxCDF	ppt	---	3.34 U	3.23 U	3.13 U	3.07 U	3.08 U	3 U	2.92 U	3.07 U	3.25 U
1,2,3,7,8-PeCDD	ppt	---	35.5	28.7	5.74	8.59	48.5	0.659 J	8.65 K	5.88	10.1
1,2,3,7,8-PeCDF	ppt	---	22.7	21.9 P	5.87	5.37	26.9 KP	0.355 J	6.8	4.52	5.03 K
2,3,4,6,7,8-HxCDF	ppt	---	40.1	47.8	14.7	13.9	124	0.761 J	20.4	15.4	35.3
2,3,4,7,8-PeCDF	ppt	---	30.4	24.6	14.8	8.02	31.3	0.44 J	7.25	5.47	7.78
2,3,7,8-TCDD	ppt	---	20.1	10.9	2.49	4.33	22	1.2 U	4.57	4.08	3.92
2,3,7,8-TCDF	ppt	---	33.1	21.2	8.45	5.16	19.5	0.507 J	5.56	4.05	5.03
OCDD	ppt	---	41,800 BE	86,400 B	22,100 BE	39,700 B	153,000 B	1,680 BE	25,400 BE	195,00 BE	29,900 BE
OCDF	ppt	---	10,500	23,100 B	3,790 BE	5,970 B	42,100 B	76.6 B	5,770 BE	3,950 BE	7,310 BE
Total Hepta-Dioxins	ppt	---	10,800	15,300	3,600	7,990	28,200	148	5,180	3,670	6,010
Total Hepta-Furans	ppt	---	6,940	11,500	2,160	4,420	19,500	62.4	3,230	2,220	4,310
Total Hexa-Dioxins	ppt	---	1,270	1,650	335	622	2,890	19.2	1,090	361	597
Total Hexa-Furans	ppt	---	1,550	1,230	245	876	1,990	18.2	629	263	534
Total Penta-Dioxins	ppt	---	390	200	67.2	114	504	5.15	50.2	77.9	105
Total Penta-Furans	ppt	---	533	540	220	212	723	5.64	134	110	165
Total Tetra-Dioxins	ppt	---	459	228	155	832	338	0.585 J	90.6	68	54
Total Tetra-Furans	ppt	---	674	422	195	99.8	341	2.55	99.7	68.2	88.5
Total TEQ	ppt	---	224	275	58.6	88	486	3.19	87.7	58	95.8
PCB Congeners											
PCB 81	ppt	---	245	NA	50.1 JK	51.9 J	125	NA	40.1 J	40.8 J	NA
PCB 77	ppt	---	5,100 B	NA	821 B	648 B	1,680 B	NA	51.5 B	593 B	NA
PCB 123	ppt	---	1,100	NA	408	289	966	NA	261	237	NA
PCB 118	ppt	---	43,500 BE	NA	11,400 BE	9,780 B	25,200 BE	NA	6,440 B	6,310 B	NA
PCB 114	ppt	---	1,400	NA	362	297	1,040	NA	275	262	NA
PCB 105	ppt	---	28,700 BE	NA	7,730 B	6,710 B	19,700 BE	NA	4,830 B	4,640 B	NA
PCB 126	ppt	---	403	NA	87.0 J	90.9 J	500	NA	139	126	NA
PCB 167	ppt	---	4,620 B	NA	1,280 B	1,180 B	4,820 B	NA	1,160 B	1,070 B	NA
PCBs 156 + 157	ppt	---	16,700 BE	NA	3,610 B	3,640 B	15,100 BE	NA	3,760 B	3,400 B	NA
PCB 169	ppt	---	169	NA	47.3 J	61.1 J	207	NA	52.5 J	39.8 J	NA
PCB 189	ppt	---	2,620	NA	682	625	3,170	NA	754	637	NA
Total TEQ	ppt	---	48.9	NA	11	11.7	58.5	NA	16.1	14.4	NA
Total TEQ											
Total TEQ	ppt	~~1,000~~ 50	272.9	275	69.6	99.7	544.5	3.19	103.8	72.4	95.8

NO ↑

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Table 4-1a
Dioxin/Furan and PCB Congener Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-25	SE-SS-26	SE-SS-27	SE-SS-28	SE-SS-29	SE-SS-30	SE-SS-31	SE-SS-32	SE-SS-33
		Field Sample ID	SE-SS-25-110609	SE-SS-26-110609	SE-SS-27-110609	SE-SS-28-110609	SE-SS-29-110609	SE-SS-30-110609	SE-SS-31-110609	SE-SS-32-110609	SE-SS-33-110609
		Sampling Location	[redacted]	[redacted] Exemption 6-Personal Home Addresses	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted] St.
		Sampling Date	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
Chemical Name	Unit	Current SL (ppt)									
Solids, Total	%		75.3	75.1	76.2	76.5	72.1	76.7	75.5	79.7	74.1
Dioxin-Furans											
1,2,3,4,6,7,8-HpCDD	ppt	---	2,150 BE	1,050 BE	4,750 B	7,190 B	19,600 B	5,740 B	18,700 B	17,400	4,510
1,2,3,4,6,7,8-HpCDF	ppt	---	613 B	297 B	962 B	1,950 B	4,230 B	1,290 B	5,450 B	4,620	1,370
1,2,3,4,7,8,9-HpCDF	ppt	---	52.4	17.9	55.5	62.1	270	94.5	573	235	77.6
1,2,3,4,7,8-HxCDD	ppt	---	18	6.79	25.5	21.1	43	27.2	174	96.6	39.1
1,2,3,4,7,8-HxCDF	ppt	---	52.4	20.8	50.9	47.2	106	66.8	367	176	80.3
1,2,3,6,7,8-HxCDD	ppt	---	61.1	29.2	141	107	347	149	526 JD	451	110
1,2,3,6,7,8-HxCDF	ppt	---	25.2	10.6	26.4	20.2	41.4	31.1	155	79.4	31.8
1,2,3,7,8,9-HxCDD	ppt	---	36.1 K	18.3	72.2	60.3	121	81.1	385	302	114
1,2,3,7,8,9-HxCDF	ppt	---	3.2 U	2.8 U	2.93 U	2.94 U	2.93 U	3.14 U	3.25 U	1.74 J	2 JP
1,2,3,7,8-PeCDD	ppt	---	9.32	4.46	13	9.89	21	15.7	79.4	55.4	22.1
1,2,3,7,8-PeCDF	ppt	---	6.37	2.96 K	8.98	5.19 K	10	7.78	38.7	23.3	12.4
2,3,4,6,7,8-HxCDF	ppt	---	32.4	12	34.1	26.1	56.6	37.7	206	110	41
2,3,4,7,8-PeCDF	ppt	---	10.5	3.76	11.4	10.3	17.4	13.7	63.5	32.3	15.1
2,3,7,8-TCDD	ppt	---	41.4	2.46	7.22	7.8	9.29	6.8	41.4	28.1	18.2
2,3,7,8-TCDF	ppt	---	8.34	4.07	9.81	6.23	11.3	11.3	41	20.8	14
OCDD	ppt	---	27,500 BE	11,300 BE	38,000 BE	87,400 BE	1,120,000 B	62,300 BE	255,000 B	317,000 BE	55,400 BE
OCDF	ppt	---	3,970 BE	1,940 BE	5,660 B	18,500 B	83,600 B	12,500 B	57,800 B	45,400	9,940
Total Hepta-Dioxins	ppt	---	4,420	2,250	6,690	7,240	24,900	10,200	55,200	27,000	8,480
Total Hepta-Furans	ppt	---	2,350	1,160	2,870	4,500	19,400	5,910	37,900	16,900	5,240
Total Hexa-Dioxins	ppt	---	443	247	790	639	1,830	988	5,090	2,890	1,060
Total Hexa-Furans	ppt	---	592	262	490	776	992	575	3,460	1,690	923
Total Penta-Dioxins	ppt	---	87.9	52.8	145	113	180	158	759	279	232
Total Penta-Furans	ppt	---	201	83.3	267	226	411	309	1,420	635	215
Total Tetra-Dioxins	ppt	---	108	40.6	99.1	590	306	115	524	210	162
Total Tetra-Furans	ppt	---	111	55.2	167	189	182	192	747	298	169
Total TEQ	ppt	---	115	35.9	131	174	711	161	667	549	168
PCB Congeners											
PCB 81	ppt	---	43.8 J	NA	NA	NA	NA	NA	198	358	NA
PCB 77	ppt	---	591 B	NA	NA	NA	NA	NA	3490 B	5,660 B	NA
PCB 123	ppt	---	336	NA	NA	NA	NA	NA	1,890	1,540	NA
PCB 118	ppt	---	7,540 B	NA	NA	NA	NA	NA	62,300 B	45,800 B	NA
PCB 114	ppt	---	280	NA	NA	NA	NA	NA	2,040	1,770	NA
PCB 105	ppt	---	6,580 B	NA	NA	NA	NA	NA	40,200 B	31,100 B	NA
PCB 126	ppt	---	149	NA	NA	NA	NA	NA	645	570	NA
PCB 167	ppt	---	1,390 B	NA	NA	NA	NA	NA	11,200 B	7,360 B	NA
PCBs 156 + 157	ppt	---	4,380 B	NA	NA	NA	NA	NA	33,700 B	20,700 B	NA
PCB 169	ppt	---	61.7 J	NA	NA	NA	NA	NA	369	213	NA
PCB 189	ppt	---	796	NA	NA	NA	NA	NA	6,320	4,700	NA
Total TEQ	ppt	---	17.5	NA	NA	NA	NA	NA	80.7	67.4	NA
Total TEQ											
Total TEQ	ppt	~~1,000~~ 50	132.5	35.9	131	174	711	161	747.7	616.4	168

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Table 4-1a
Dioxin/Furan and PCB Congener Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-34
		Field Sample ID	SE-SS-34-110609
		Sampling Location	[redacted]
		Sampling Date	11/6/2009
Chemical Name	**Unit**	**Current SL (ppt)**	
Solids, Total	%		74.7
Dioxin-Furans			
1,2,3,4,6,7,8-HpCDD	ppt	---	450
1,2,3,4,6,7,8-HpCDF	ppt	---	168
1,2,3,4,7,8,9-HpCDF	ppt	---	18.9
1,2,3,4,7,8-HxCDD	ppt	---	4.71
1,2,3,4,7,8-HxCDF	ppt	---	17.2
1,2,3,6,7,8-HxCDD	ppt	---	15.8
1,2,3,6,7,8-HxCDF	ppt	---	8.07
1,2,3,7,8,9-HxCDD	ppt	---	15
1,2,3,7,8,9-HxCDF	ppt	---	3.19 U
1,2,3,7,8-PeCDD	ppt	---	3.24
1,2,3,7,8-PeCDF	ppt	---	3.43
2,3,4,6,7,8-HxCDF	ppt	---	7.51
2,3,4,7,8-PeCDF	ppt	---	3.23
2,3,7,8-TCDD	ppt	---	1.26 J
2,3,7,8-TCDF	ppt	---	2.64 K
OCDD	ppt	---	4,730 BE
OCDF	ppt	---	850
Total Hepta-Dioxins	ppt	---	928
Total Hepta-Furans	ppt	---	612
Total Hexa-Dioxins	ppt	---	149
Total Hexa-Furans	ppt	---	170
Total Penta-Dioxins	ppt	---	48
Total Penta-Furans	ppt	---	57
Total Tetra-Dioxins	ppt	---	36.9
Total Tetra-Furans	ppt	---	37.1
Total TEQ	ppt	---	20.7
PCB Congeners			
PCB 81	ppt	---	NA
PCB 77	ppt	---	NA
PCB 123	ppt	---	NA
PCB 118	ppt	---	NA
PCB 114	ppt	---	NA
PCB 105	ppt	---	NA
PCB 126	ppt	---	NA
PCB 167	ppt	---	NA
PCBs 156 + 157	ppt	---	NA
PCB 169	ppt	---	NA
PCB 189	ppt	---	NA
Total TEQ	ppt	---	NA
Total TEQ			
Total TEQ	ppt	~~1,000~~ 50	20.7

Notes:
ID = Identification
NA = Not analyzed
PCB = Polychlorinated biphenyl
ppt = Part per trillion
SL = U.S. EPA National Dioxin Workgroup screening level
TEQ = Toxic equivalent to 2,3,7,8-TCDD
U.S. EPA - United States Environmental Protection Agency

Data Qualifier Definitions:
B-Analyte detected in method blank as well as sample
E-Estimated concentration that exceeds upper end of linear calibration range
J-Estimated concentration below method reporting limit and above estimated detection limit
K-Ion abundance ratio outside QC limits; estimated maximum possible concentration for associated compound
P-Chloridphenylether interference present at retention time of target compound
U-Compound analyzed for but not detected at reporting limit

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LUCY –
ON THE DATA TAGS
WE WILL CHANGE UNITS TO MAKE
THE NUMBER SMALLER (EASIER TO READ)

Table 4-1b
PCB Homolog Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-01	SE-SS-02	SE-SS-03	SE-SS-04	SE-SS-05	SE-SS-05
		Field Sample ID	SE-SS-01-110409	SE-SS-02-110409	SE-SS-03-110409	SE-SS-04-110409	SE-SS-05-110409	SE-SS-05-110409-D
		Sampling Location	Exemption 6-Home Addresses [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		Sampling Date	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009
Chemical Name	**Unit**	**SL (ppb)[a]**						
Solids, Total	%		79.3	79.2	77.8	77.4	79.7	80.2
PCB Homologs								
Monochlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	520 U	250 U	150 U
Dichlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	520 U	250 U	150 U
Trichlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	520 U	250 U	150 U
Tetrachlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	520 U	250 U	150 U
Pentachlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	1,700	250 U	150 U
Hexachlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	1,400	250 U	150 U
Heptachlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	520 U	250 U	150 U
Octachlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	520 U	250 U	150 U
Nonachlorobiphenyls, Total	ppb	---	130 U	130 U	130 U	520 U	250 U	150 U
Decachlorobiphenyls, Total	ppb	---	180	320	130 U	1,300	250 U	150 U
Total PCBs	ppb	~~1,000~~	180	320	130 U	~~4,400~~ 4.40	250 U	150 U

SO 4,400 ppb BECOMES 4.4 ppm

		Location ID	SE-SS-06	SE-SS-07	SE-SS-08	SE-SS-09	SE-SS-10	SE-SS-11
		Field Sample ID	SE-SS-06-110409	SE-SS-07-110409	SE-SS-08-110409	SE-SS-09-110409	SE-SS-10-110409	SE-SS-11-110409
		Sampling Location	Exemption 6-Home Addresses [redacted]	[redacted]	[redacted] Playground [redacted]	[redacted]	[redacted]	[redacted] is
		Sampling Date	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009
Chemical Name	**Unit**	**SL (ppb)[a]**						
Solids, Total	%		72.5	78.4	82.1	76.7	75.2	78.5
PCB Homologs								
Monochlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Dichlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Trichlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Tetrachlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Pentachlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Hexachlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Heptachlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Octachlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	25 U
Nonachlorobiphenyls, Total	ppb	---	280 U	180 U	73 U	78 U	270 U	33
Decachlorobiphenyls, Total	ppb	---	690	910	220	78 U	270 U	110
Total PCBs	ppb	~~1,000~~	690	910	220	78 U	270 U	143

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Table 4-1b
PCB Homolog Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-12	SE-SS-13	SE-SS-14	SE-SS-15	SE-SS-16	SE-SS-17
		Field Sample ID	SE-SS-12-110409	SE-SS-13-110509	SE-SS-14-110509	SE-SS-15-110509	SE-SS-16-110509	SE-SS-17-110509
			Ex. 6-Home Addresses [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		Sampling Date	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009
Chemical Name	Unit	SL (ppb)[a]						
Solids, Total	%		72.4	69.8	77.2	68.3	72.2	74.3
PCB Homologs								
Monochlorobiphenyls, Total	ppb	---	55 U	140 U	78 U	290 U	280 U	27 U
Dichlorobiphenyls, Total	ppb	---	55 U	140 U	78 U	290 U	280 U	27 U
Trichlorobiphenyls, Total	ppb	---	55 U	140 U	78 U	290 U	280 U	27 U
Tetrachlorobiphenyls, Total	ppb	---	55 U	140 U	78 U	290 U	280 U	44
Pentachlorobiphenyls, Total	ppb	---	56	140 U	140	800	280 U	99
Hexachlorobiphenyls, Total	ppb	---	93	140 U	78 U	470	280 U	110
Heptachlorobiphenyls, Total	ppb	---	55 U	140 U	78 U	290 U	280 U	120
Octachlorobiphenyls, Total	ppb	---	55 U	140 U	78 U	290 U	280 U	78
Nonachlorobiphenyls, Total	ppb	---	55 U	140 U	78 U	290 U	280 U	140
Decachlorobiphenyls, Total	ppb	---	61	450	78 U	330	570	510
Total PCBs	ppb	1,000	210	450	140	~~1,600~~ 1.60	570	~~1,101~~ 1.10

		Location ID	SE-SS-18	SE-SS-19	SE-SS-20	SE-SS-21	SE-SS-22	SE-SS-23
		Field Sample ID	SE-SS-18-110509	SE-SS-19-110509	SE-SS-20-110509	SE-SS-21-110509	SE-SS-22-110509	SE-SS-23-110509
			Ex. 6-Home Addresses [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		Sampling Date	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009	11/5/2009
Chemical Name	Unit	SL (ppb)[a]						
Solids, Total	%		74.6	74.4	76.5	76.4	79.1	79.5
PCB Homologs								
Monochlorobiphenyls, Total	ppb	---	27 U	27 UJ	26 UJ	110 UJ	25 UJ	25 UJ
Dichlorobiphenyls, Total	ppb	---	27 U	27 UJ	26 UJ	110 UJ	25 UJ	25 UJ
Trichlorobiphenyls, Total	ppb	---	27 U	27 UJ	26 UJ	110 UJ	25 UJ	25 UJ
Tetrachlorobiphenyls, Total	ppb	---	27 U	27 UJ	26 UJ	110 UJ	25 UJ	25 UJ
Pentachlorobiphenyls, Total	ppb	---	27 U	27 UJ	38 J	110 UJ	25 UJ	25 UJ
Hexachlorobiphenyls, Total	ppb	---	27 U	44 J	54 J	160 J	25 UJ	26 J
Heptachlorobiphenyls, Total	ppb	---	27 U	27 UJ	42 J	160 J	25 UJ	25 UJ
Octachlorobiphenyls, Total	ppb	---	27 U	27 UJ	26 UJ	110 UJ	25 UJ	25 UJ
Nonachlorobiphenyls, Total	ppb	---	32	27 UJ	26 UJ	200 J	25 UJ	55 J
Decachlorobiphenyls, Total	ppb	---	120	52 J	68 J	840 J	25 UJ	230 J
Total PCBs	ppb	1,000	152	96 J	202 J	~~1360 J~~ 1.36	25 UJ	311 J

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Table 4-1b
PCB Homolog Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

		Location ID	SE-SS-23	SE-SS-24	SE-SS-25	SE-SS-26	SE-SS-27	SE-SS-28
		Field Sample ID	SE-SS-23-110509-1	SE-SS-24-110609	SE-SS-25-110609	SE-SS-26-110609	SE-SS-27-110609	SE-SS-28-110609
			Ex. 6-Home Addresses [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		Sampling Date	11/5/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
Chemical Name	Unit	SL (ppb)[a]						
Solids, Total	%		77	74	75.3	75.1	76.2	76.5
PCB Homologs								
Monochlorobiphenyls, Total	ppb	---	26 UJ	54 UJ	27 UJ	27 U J	52 UJ	52 U J
Dichlorobiphenyls, Total	ppb	---	26 UJ	54 UJ	27 UJ	27 U J	52 UJ	52 U J
Trichlorobiphenyls, Total	ppb	---	26 UJ	54 UJ	27 UJ	27 U J	52 UJ	52 U J
Tetrachlorobiphenyls, Total	ppb	---	26 UJ	54 UJ	27 UJ	27 U J	52 UJ	52 U J
Pentachlorobiphenyls, Total	ppb	---	26 UJ	54 UJ	27 UJ	27 U J	52 UJ	52 U J
Hexachlorobiphenyls, Total	ppb	---	32 J	54 UJ	36 J	27 U J	52 UJ	52 U J
Heptachlorobiphenyls, Total	ppb	---	36 J	54 UJ	27 UJ	27 U J	52 UJ	52 U J
Octachlorobiphenyls, Total	ppb	---	26 UJ	54 UJ	27 UJ	27 U J	52 UJ	52 U J
Nonachlorobiphenyls, Total	ppb	---	65 J	54 UJ	27 UJ	27 U J	62 J	52 U J
Decachlorobiphenyls, Total	ppb	---	260 J	140 J	77 J	35 J	190 J	160 J
Total PCBs	ppb	1,000	393 J	140 J	113 J	35 J	252 J	160 J

		Location ID	SE-SS-29	SE-SS-30	SE-SS-31	SE-SS-32	SE-SS-33	SE-SS-34
		Field Sample ID	SE-SS-29-110609	SE-SS-30-110609	SE-SS-31-110609	SE-SS-32-110609	SE-SS-33-110609	SE-SS-34-110609
		Sampling Location	Ex. 6-Home Addresses [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
		Sampling Date	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
Chemical Name	Unit	SL (ppb)[a]						
Solids, Total	%		72.1	76.7	75.5	79.7	74.1	74.7
PCB Homologs								
Monochlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	260 U	130 U	54 U	27 U
Dichlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	260 U	130 U	54 U	27 U
Trichlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	260 U	130 U	54 U	27 U
Tetrachlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	260 U	130 U	54 U	27 U
Pentachlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	600	230	54 U	27 U
Hexachlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	660	340	54 U	27 U
Heptachlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	420	240	54 U	27 U
Octachlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	260 U	130 U	99	27 U
Nonachlorobiphenyls, Total	ppb	---	140 UJ	100 UJ	260 U	130 U	59	27 U
Decachlorobiphenyls, Total	ppb	---	140 UJ	120 J	310	200	110	64
Total PCBs	ppb	1,000	140 UJ	120 J	~~1,990~~ 1.99	~~1,010~~ 1.01	268	64

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Table 4-1b
PCB Homolog Results
Sauget/East St. Louis Residential PCB/Dioxin Sampling Site
Sauget and East St. Louis, IL

Notes:
Shaded results exceed the SL.
ID = Identification
PCB = Polychlorinated biphenyl
ppb = Part per billion
SL = U.S. EPA Toxic Substances Control Act residential screening level
U.S. EPA - United States Environmental Protection Agency
Data Qualifier Definitions:
J-Estimated concentration below method reporting limit and above estimated detection limit
U-Compound analyzed for but not detected at reporting limit
UJ - Compound not detected reporting limit, which should be considered estimated

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