Table 3
Surface Soil Sampling
Soil Analytical Results in Milligrams per Kilogram (mg/kg)
Commonwealth Edison Company - Crawford Generating Station
3501 South Pulaski Road
Chicago, Illinois

Sample I.D.	S-15	S-16	S-17	S-18	S-19	S-20	S-21	IEPA Soil Cleanup Objectives
Lab I.D.	495376	495369	495368	495367	495366	495598	495594	
Sample Date	9/29/98	9/29/98	9/29/98	9/29/98	9/29/98	9/30/98	9/29/98	
Parameters								
BTEX								
Benzene	< 0.006	< 0.006	< 0.006	< 0.009	< 0.006	< 0.008	< 0.005	0.17
Toluene	< 0.006	< 0.006	< 0.006	< 0.009	0.018	< 0.008	< 0.005	29
Ethyl Benzene	< 0.006	< 0.006	< 0.006	< 0.009	0.062	< 0.008	< 0.005	19
Total Xylenes	< 0.006	< 0.006	< 0.006	< 0.009	0.15	< 0.008	< 0.005	150
TPH								
Gasoline	< 5,500	< 5,900	< 631	< 200	< 5,600	< 3,900	< 2,600	NA
Diesel	< 5,500	< 5,900	< 631	< 200	< 5,600	< 3,900	< 2,600	NA
Oil	58,800	74,000	177,000	3,050	123,000	40,800	37,200	NA
PNAs								
Acenaphthene	< 2.2	< 2.4	< 1.5	< 0.2	< 2.7	< 0.2	< 1.0	2,800
Acenaphthylene	< 2.2	< 2.4	< 1.5	< 0.2	< 2.7	< 0.2	< 1.0	NA
Anthracene	< 4.4	< 4.7	< 3.0	< 0.4	< 5.4	< 0.3	< 2.1	59,000
Benzo(a)anthracene	< 0.29	< 0.31	< 0.20	< 0.02	<0 .35	< 0.86	< 0.89	8
Benzo(a)pyrene	< 0.51	< 0.54	< 0.35	< 0.04	<0 .61	0.55	< 0.81	0.8
Benzo(b)fluoranthene	< 0.40	< 0.42	< 0.28	< 0.04	< 0.48	0.55	< 0.24	8
Benzo(g,h,i)perylene	< 4.4	< 4.7	< 3.0	< 0.4	< 5.4	0.69	< 2.1	NA
Benzo(k)fluoranthene	< 0.38	< 0.40	< 0.25	< 0.04	< 0.46	0.47	< 0.18	78
Chrysene	< 3	< 4	< 3	0.65	< 4	< 0.3	< 2	780
Dibenzo(a,h)anthracene	< 0.7	< 0.7	< 0.5	< 0.05	< 0.8	0.14	< 0.3	0.8
Fluoranthene	3.3	< 2.4	< 1.5	< 0.2	< 5.4	0.89	< 1.0	21,000
Fluorene	< 2.2	< 2.4	< 1.5	< 0.2	94	0.25	< 1.0	2,800
Indeno(1,2,3-c,d)pyrene	< 0.95	1	< 0.66	< 0.07	< 1 .1	0.55	< 0.44	8
Naphthalene	< 2.8	< 2.9	< 1.9	< 0.2	< 3 .3	< 0.2	< 1.2	420
Phenanthrene	< 4.4	< 4.7	< 3.0	0.61	246	0.41	< 2.1	NA
Pyrene	3.8	< 2.4	< 1.5	0.32	< 2.7	0.88	< 1.0	21,000
RCRA Metals								
Arsenic	13	3.5	5.7	4.7	<1.3	9.1	2.9	3
Barium	988	212	100	1,110	312	329	176	14,000
Cadmium	23	2	1	<1.8	<1.1	8.6	13	200
Chromium	60	11	25	10	3.6	39	8.2	420
Lead	2,440	94	58	22	8	1,720	103	400
Mercury	0.11	0.083	< 0.050	< 0.072	< 0.045	0.2	< 0.041	61
Selenium	< 0.28	< 0.59	< 0.32	< 0.45	< 0.28	< 0.39	< 0.26	1,000
Silver	< 2.2	< 2.4	< 2.5	< 3.6	< 2.2	< 3.1	2.4	1,000
Total PCBs	1.25	0.129	2.4	< 0.072	< 0.090	2.2	< 0.041	1
pH	7.78	7.11	8.77	7.45	6.75	8.28	7.48	NA

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Sample I.D. Lab I.D. Sample Date	S-22 495595 9/29/98	S-23 495359 9/28/98	S-24 495360 9/28/98	S-25 495361 9/28/98	S-26 495596 9/29/98	IEPA Soil Cleanup Objectives
Parameters						
BTEX						
Benzene	< 0.006	< 0.005	< 0.005	< 0.005	< 0.006	0.17
Toluene	< 0.006	< 0.005	< 0.005	0.0081	< 0.006	29
Ethyl Benzene	< 0.006	< 0.005	< 0.005	0.032	< 0.006	19
Total Xylenes	< 0.006	< 0.005	< 0.005	0.049	< 0.006	150
TPH						
Gasoline	< 5,900	< 10,000	< 5,100	< 5,200	< 12,000	NA
Diesel	< 5,900	< 10,000	< 5,100	< 5,200	< 12,000	NA
Oil	96,800	133,000	95,300	113,000	195,000	NA
PNAs						
Acenaphthene	< 0.24	< 2.9	< 2.7	< 2.9	< 1.8	2,800
Acenaphthylene	< 0.24	< 2.9	< 2.7	< 2.9	< 1.8	NA
Anthracene	< 0.47	< 5.7	< 5.3	6.2	< 3.6	59,000
Benzo(a)anthracene	< 2.1	2.3	< 0.35	18	< 17	8
Benzo(a)pyrene	< 0.25	3.1	< 0.61	11	< 0.41	0.8
Benzo(b)fluoranthene	< 1.1	3.1	< 0.48	7.2	< 0.33	8
Benzo(g,h,i)perylene	< 0.47	< 5.7	< 5.3	18	< 3.6	NA
Benzo(k)fluoranthene	< 0.58	1.1	< 0.45	< 0.49	< 0.32	78
Chrysene	< 0.78	< 4	< 4	6.6	< 2	780
Dibenzo(a,h)anthracene	< 0.07	< 0.8	< 0.8	1.3	< 0.5	0.8
Fluoranthene	< 0.24	5.6	< 2.7	21	< 4.6	21,000
Fluorene	< 0.24	< 2.9	< 2.7	5.8	< 1.8	2,800
Indeno(1,2,3-c,d)pyrene	< 0.10	1.6	< 1.1	4.3	< 0.88	8
Naphthalene	< 0.30	< 3.6	< 3.3	4.8	< 2.3	420
Phenanthrene	< 0.47	< 5.7	13	13	< 3.6	NA
Pyrene	< 0.91	6.3	< 2.7	27	< 1.8	21,000
RCRA Metals						
Arsenic	7.2	4	23	5.6	3.6	3
Barium	118	540	912	680	110	14,000
Cadmium	1.3	0.92	2.7	6.3	2.8	200
Chromium	18	13	43	62	39	420
Lead	4,600	39	174	216	207	400
Mercury	< 0.047	0.053	0.27	0.086	< 0.049	61
Selenium	< 0.30	< 0.25	< 0.26	< 0.26	< 0.30	1,000
Silver	< 2.4	< 2.0	< 2.0	< 2.1	< 2.4	1,000
Total PCBs	< 0.094	< 0.041	0.78	< 0.20	0.17	1
pH	8.00	8.03	7.19	6.80	8.29	NA

Notes:
Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties

(1) NA indicates not applicable, cleanup objectives have not been established for these parameters.
(2) Results are shown as totals, therefore the soil component of the groundwater ingestion exposure route has not been considered.

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Sample I.D. Lab I.D. Sample Date	S-1 495597 9/30/98	S-2 495586 9/29/98	S-3 495587 9/29/98	S-4 495588 9/29/98	S-5 495589 9/29/98	S-6 495590 9/29/98	S-7 495371 9/29/98	IEPA Soil Cleanup Objectives
Parameters								
BTEX								
Benzene	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	< 0.005	0.17
Toluene	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	< 0.005	29
Ethyl Benzene	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	< 0.005	19
Total Xylenes	< 0.005	< 0.006	< 0.006	< 0.005	< 0.006	< 0.005	< 0.005	150
TPH								
Gasoline	< 10,500	< 12,000	< 6,000	< 21,800	< 10,000	< 5,500	< 5,450	NA[1]
Diesel	< 10,500	< 12,000	< 6,000	< 21,800	< 10,000	< 5,500	< 5,450	NA
Oil → haul 45/ton X	167,000	106,000	50,800	163,000	86,300	66,600	88,200	NA site specific FOC
PNAs								
Acenaphthene	< 1.4	< 1.2	4.4	< 1.4	< 1.6	< 7.4	< 2.8	2,800
Acenaphthylene	< 1.4	< 1.2	8.8	< 1.4	< 1.6	< 7.4	< 2.8	NA
Anthracene	< 2.7	< 2.5	8.5	< 2.8	< 4.4	< 2.6	< 5.7	59,000
Benzo(a)anthracene	< 0.74	< 4.2	8.2	< 3.9	1.3	< 0.50	2.3	8
Benzo(a)pyrene	< 0.96	< 0.28	6.2	< 2.3	< 1.8	< 4.9	< 0.65	0.8
Benzo(b)fluoranthene	< 2.7	0.22	8.6	< 3.3	< 3.2	< 1.5	< 0.51	8
Benzo(g,h,i)perylene	< 2.7	< 2.5	5.7	< 2.8	< 3.2	< 2.6	< 5.7	NA
Benzo(k)fluoranthene	< 0.23	< 0.21	4.4	< 8.0	< 0.83	< 0.22	< 0.48	78
Chrysene	< 2	< 2	6.5	< 3.8	< 2	< 2	< 4	780
Dibenzo(a,h)anthracene	< 0.4	< 0.4	< 0.7	< 0.4	< 0.5	< 0.4	< 0.9	0.8
Fluoranthene	< 1.4	< 1.2	28	< 15	2.6	< 3.4	4.1	21,000
Fluorene	< 1.4	< 1.2	7.5	< 1.4	< 1.6	< 6.8	< 2.8	2,800
Indeno(1,2,3-c,d)pyrene	< 0.59	< 0.53	4.5	< 0.61	< 1.3	< 0.57	< 1.2	8
Naphthalene	< 1.7	< 1.5	< 3.0	< 1.7	< 2.1	< 1.6	< 3.5	420
Phenanthrene	< 2.7	< 2.5	33	< 2.8	3.5	< 2.6	< 5.7	NA
Pyrene	< 1.4	< 1.2	24	< 8.5	< 1.6	< 1.3	5.6	21,000
RCRA Metals[2]								
Arsenic	5.8	11	8.6	14	11	11	12	3
Barium	2,930	589	145	370	184	131	664	14,000
Cadmium	1	5.6	2.5	6.9	4.1	1.7	31	200
Chromium	16	22	12	23	17	13	65	420
Lead	73	994	339	403	173	81	1,630	400 — 800
Mercury	< 0.042	< 0.049	0.054	0.044	0.089	< 0.044	0.074	61
Selenium	0.52	< 0.31	< 0.30	< 0.27	< 0.29	< 0.27	< 0.27	1,000
Silver	2.2	< 2.5	< 2.4	< 2.2	< 2.3	< 2.2	< 2.2	1,000
Total PCBs	< 0.042	4.5	< 0.048	< 0.044	< 0.23	< 0.044	1.4	1
pH	9.35	7.14	7.29	7.44	7.35	7.24	7.42	NA

10,200
20,000

Lead → over 1,000.

mix Treat-dispose outside

TCLP need haz. cov