

Table S1. Sample characteristics of original, geocoded, and analyzed datasets

	<b>Original Dataset</b>	<b>Geocoded Dataset</b>	<b>Analyzed Dataset</b>
	<b>N (%)</b>	<b>N (%)</b>	<b>N (%)</b>
<i>Birth Weight (g)</i>			
< 200	78 (<0.1%)	62 (<0.1%)	N/A
200 - 2499	466,024 (90.1%)	376,093 (90.2%)	374,053 (90.6%)
> 2500	51,030 (9.9%)	40,472 (9.7%)	38,884 (9.4%)
Unknown, Not Stated	213 (<0.1%)	167 (<0.1%)	N/A
<i>Gestational Period (wks)</i>			
< 24	1,777 (0.3%)	1,397 (0.3%)	N/A
24 - 36	454,397 (87.8%)	366,376 (87.9%)	364,842 (88.4%)
> 37	60,247 (11.7%)	48,382 (11.6%)	48,095 (11.7%)
Unknown, Not Stated	924 (0.2%)	639 (0.2%)	N/A
<i>Distance to nearest TRI Facility (km)*</i>			
> 5	N/A	390,492 (93.7%)	386,951 (93.7%)
> 2.5 - 5.0	N/A	16,287 (3.9%)	16,079 (3.9%)
≤ 2.5	N/A	10,015 (2.4%)	9,907 (2.4%)
<i>Race, Black</i>			
Yes	162,592 (31.4%)	129,111 (31.0%)	127,478 (30.9%)
Unknown, Not Stated	186 (<0.1%)	132 (<0.1%)	N/A
<i>Ethnicity, Hispanic</i>			
Yes	21,573 (4.2%)	17,284 (4.2%)	16,766 (4.1%)
Unknown, Not Stated	277 (0.1%)	212 (0.1%)	N/A
<i>Payment Method</i>			
Medicaid	242,291 (46.8%)	188,152 (45.1%)	186,437 (45.2%)
Private Insurance	253,703 (49.0%)	212,372 (51.0%)	211,313 (51.2%)
Self Pay	15,810 (3.1%)	12,074 (2.9%)	11,626 (2.8%)
Other	4,752 (0.9%)	3,636 (0.9%)	3,561 (0.9%)
Unknown, Not Stated	789 (0.2%)	560 (0.1%)	N/A
<i>Education (years)</i>			
< 12	118,239 (22.9%)	89,469 (21.5%)	88,546 (21.4%)
12	169,997 (32.9%)	132,139 (31.7%)	131,142 (31.8%)
> 12	227,789 (44.0%)	194,261 (46.6%)	193,249 (46.8%)
Unknown, Not Stated	1,320 (0.3%)	925 (0.2%)	N/A
<i>Age (years)</i>			
< 18	29,360 (5.7%)	22,428 (5.4%)	21,983 (5.3%)
18-35	456,466 (88.2%)	367,466 (88.2%)	364,275 (88.2%)
> 35	31,483 (6.1%)	26,891 (6.5%)	26,679 (6.5%)
Unknown, Not Stated	36 (<0.1%)	9 (<0.1%)	N/A
<i>Parity (number of births)</i>			
1	216,345 (41.8%)	174,671 (41.9%)	172,967 (41.9%)
2	175,585 (33.9%)	141,695 (34.0%)	140,665 (34.1%)

	3	82,462 (15.9%)	66,476 (16.0%)	65,869 (16.0%)
	4 or more	42,823 (8.3%)	33,869 (8.1%)	33,436 (8.1%)
	Unknown, Not Stated	130 (<0.1%)	83 (<0.1%)	N/A
<i>Birth year</i>				
	1991	26,617 (5.1%)	16,119 (3.9%)	15,986 (3.9%)
	1992	25,999 (5.0%)	16,802 (4.0%)	16,652 (4.0%)
	1993	26,300 (5.1%)	17,300 (4.2%)	17,090 (4.1%)
	1994	25,784 (5.0%)	17,865 (4.3%)	17,672 (4.3%)
	1995	25,679 (5.0%)	18,285 (4.4%)	18,047 (4.4%)
	1996	25,298 (4.9%)	18,821 (4.5%)	18,622 (4.5%)
	1997	25,742 (5.0%)	20,307 (4.9%)	20,090 (4.9%)
	1998	26,033 (5.0%)	21,074 (5.1%)	20,855 (5.1%)
	1999	26,378 (5.1%)	21,835 (5.2%)	21,590 (5.2%)
	2000	26,806 (5.2%)	22,641 (5.4%)	22,426 (5.4%)
	2001	25,318 (4.9%)	21,441 (5.1%)	21,286 (5.2%)
	2002	24,425 (4.7%)	20,940 (5.0%)	20,780 (5.0%)
	2003	24,933 (4.8%)	21,675 (5.2%)	21,465 (5.2%)
	2004	24,757 (4.8%)	21,764 (5.2%)	21,573 (5.2%)
	2005	25,492 (4.9%)	22,585 (5.4%)	22,356 (5.4%)
	2006	26,424 (5.1%)	23,346 (5.6%)	23,120 (5.6%)
	2007	27,155 (5.3%)	24,238 (5.8%)	23,923 (5.8%)
	2008	26,796 (5.2%)	23,820 (5.7%)	23,713 (5.7%)
	2009	26,355 (5.1%)	23,554 (5.7%)	23,453 (5.7%)
	2010	25,054 (4.8%)	22,382 (5.4%)	22,238 (5.4%)

\*Distance to TRI unknown before geocoding

Table S2. Adjusted\* odds ratios for LBW (< 2500 grams), LBW in full term (37 weeks gestation), and PTB births and proximity to specific coke or steel production facilities\*\* in Alabama and groups of facilities within close proximity of each other\*\*\*.

<b>Facility Grouping</b>	<b><u>LBW</u></b> <b>OR (95% CI)</b>	<b><u>LBW (term)</u></b> <b>OR (95% CI)</b>	<b><u>PTB</u></b> <b>OR (95% CI)</b>
<i>Exposure to Any Facility</i>			
Within 5 km of any facility	1.03 (0.99-1.07)	1.04 (0.97-1.12)	1.05 (1.01-1.09)
<i>Individual Facility Effects**</i>			
Drummond Co Inc ABC Coke Div	1.05 (0.89-1.23)	1.09 (0.83-1.43)	1.04 (0.90-1.21)
DTE Red Mountain LLC	0.79 (0.49-1.26)		1.03 (0.68-1.57)
Empire Coke Co	1.06 (0.83-1.34)	1.25 (0.85-1.84)	0.76 (0.59-0.97)
Gulf States Steel Inc. of Alabama	1.07 (0.89-1.28)	1.08 (0.80-1.47)	0.90 (0.75-1.08)
Koppers Industries Inc Woodward	1.00 (0.85-1.17)	1.06 (0.81-1.39)	0.93 (0.80-1.09)
Merichem Co	1.46 (0.95-2.22)		1.58 (1.08-2.30)
Nucor Steel Birmingham Inc	1.05 (0.95-1.15)	0.91 (0.76-1.09)	1.16 (1.06-1.28)
Nucor Steel Tuscaloosa Inc	1.12 (0.98-1.28)	1.11 (0.86-1.41)	1.07 (0.95-1.22)
Sloss Industries Birmingham	1.07 (0.67-1.70)	1.31 (0.64-2.68)	1.06 (0.68-1.67)
SMI Steel Inc	0.96 (0.89-1.03)	1.00 (0.88-1.14)	1.03 (0.96-1.10)
USS Fairfield Works	1.06 (0.98-1.15)	1.08 (0.95-1.24)	1.06 (0.99-1.15)
Walter Coke Inc	1.07 (0.87-1.31)	1.00 (0.69-1.43)	1.11 (0.91-1.35)
<i>Facility Group Effects***</i>			
Birmingham Area	1.00 (0.95-1.05)	0.99 (0.90-1.09)	1.07 (1.02-1.13)
Central Jefferson Co.	1.05 (0.98-1.13)	1.08 (0.95-1.22)	1.04 (0.97-1.11)
Tuscaloosa	1.12 (1.00-1.26)	1.16 (0.95-1.42)	1.02 (0.92-1.14)

\*Adjusted for race, ethnicity, payment method, age, education, parity, and birth year

\*\*Facilities with less than 5 observations for any outcome were eliminated

\*\*\*Facility Groups: Birmingham Area (Drummond Co. Inc. ABC Coke Div., DTE Red Mountain LLC, Nucor Steel Birmingham Inc., Sloss Industries Birmingham, SMI Steel Inc., Walter Coke Inc.); Central Jefferson Co. (Koppers Industries Inc. Woodward Coke Plant, USS Fairfield Works); Tuscaloosa (Empire Coke Co., Merichem Co., Nucor Steel Tuscaloosa Inc.)